<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D6

<400> 3103

cncttggctt ggaacctttg ggctgnttnt gtgcttgnta tatattaaaa aaaatntnag 60

attccaaaaa aacaaaaacg gccgacacgg accggaagag gaagacggca ctactagacc 120

cattaaatct attcaagtcc ctcctaaagt cctatgcaat caccttacta ttgcctaaaa 180

ctgctttcgc cctactcttg actctacgcc tagtattcgt ctcccgtctc gtccatgagt 240

cccattcctg ctctttcgag tcaagaaagt ctcggctact ctgcgacccc ttctaacgga 300

tactagagtt gacctctaaa ttagtctcct aagtcccgga gactagccct agaccagccc 360

ctgttgcccg cctcgacatc agattgcata ctaattattg cgaacggaat tggaggtcag 420

acctctctac tatgaagtag acttagtccg cagtagtgac tcgtgaagac gaagaagaag 480

aaggcacact agtggagtct tggctggtgg cggatggagc ctgccgagcc cggcatttgt 540

antcagtcat gcggaagaga ctanangtcc cggggaaaga agatncacac cttgactgac 600

attgaagacg gaactngcgc nagcatattg tccnggatct gggggaatta aaataccggt 660

tnggaaaatt taaacncctt ggct 684

<210> 3104
<211> 710
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D8

<400> 3104

ccaccgncac cgggggggggg gngaagcagc tctggcttgg aanctttggg ctgnnttatg 60

tgcttgtgta gtcggcgnaa catagtctta gggacattgt gctccggagc cttggtgctg 120

aacgnngggc tanaagtccc atatggngca gttcatgttg gcttaggaac ttggcccaat 180

ggaatggcca aagtcgtcat tagtcccttc taagctactc cgattgtcgt cctacctgat 240

cttcacgaac ggccttgtac cgtctaagcc acaggaaagg aagtaagagg agcgcataat 300

gtagggtaag tgaacggaac gataccccgg gtattaaata ccaatacacc cagagactta 360

tggcggggaa gaggttaaga aatctttggt gaggacttga cgacgattgg aatccatgtg 420

gcggtccatg ccagaggatc ataaggcgat ctccccgatg gctggaaaat atctcttaac 480

tactcttaag ttcntgtccg ccgcaagtac cccatagtgc atgactccga ctgccggaag 540

ggcaccatct gtcatgctcc taacgtctaa gcgagcccgg tcgatccggt ggagatgcat 600

taattattgc ctaagaaacg tacagaagaa ggctgattag cggtactacg cgcgtccaca 660

ttgagctaat ggtaccttcc tccgtgtcga tttgaactcc ccgatctgaa 710

<210> 3105
<211> 731
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D9

<400> 3105

cgcaaggntc gacggtgggg catttctgag gaaatacaga ggaaaacgag tcatgttcgt 60

cggngactca ctgagtttaa acatgtggga atcgttggcc tgtatgatcc atgcgtcggt 120

accaaacgcc aagaccactt ttctcaagcg taccccactc tctactctca ctttccagga 180

atatggagta acgttatatc tatatagaac accatacata gtagatatat ccaaagagag 240

agttgggcgt gtgcttaacc ttggagctat tgaaggaggt gctgatgctt ggaaaaacat 300

ggacgttctt gtcttcaact cttggcattg gtggactcac aaaggccaat ctcaagggtg 360

ggattatatt agagatgggt cgtctttggt gagagacatg aaccgtcttg acgctttcta 420

caaaggactc agtacttggg ctcgatgggt tgatcaaaac gtcgataccg gncaaaactc 480

gagttttctt tccaaggcat ttcttccact tcattaccaa ggggaaaggg gaatnggaac 540

cgagccccan ggnaagaact ttgtaantgg gggccaaaat ggcaancccc ntttggggtt 600

ggggaatcca aaggtttanc ccccaaagtg gggtccaaan ccctttccaa ttcccnttaa 660

agggaaattn nntggggncc caaaaaaggg gggtttngaa anttttccnn attggnaaaa 720

aaaaaggccc c 731

<210> 3106
<211> 690
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-E1

<400> 3106

aactctttnc agtttccacc ggtccaaaat tcccgggtnn acccacgcgt ncgagccctt 60

tctcttttct ctctctctct atatattgct aaacaaaacc ctacttattc taaaaatgga 120

agccacgatc ttcgagaaaa gaagaagctc gttatcaagc atagcggtgc acaaacagtc 180

atactcgata accaaatcaa agccaaagat ccgtataatt cacatatttg ctccggagat 240

catcaagacc gacgttgcca acttccgtga gctcgtccaa agcctcaccg gcaaaccaga 300

cgaccagaga acttccaagg caaaacctag aagagatatg catcgtcttc atcgtcaagt 360

ccaagacatg atcaacacgg agaaactaag agaacccgag cattgtgatc aagagttctg 420

cttaaacgca gaagagctct cgatgacttg gaacggtaat aatggcgctg gtgaaagctc 480

tggagggttc ttgaatggtt tgggagattt cgaagggttt attcaagaac ttggtgaatt 540

tccttatttg cccttgtcct tccattgatg cttctgcttc ttctaacttc tcttcttnct 600

ctcatttaca tggtggatca agttttctca agatcaattc gcttaacttg ggcttnttaa 660

aaggatgtgt acctttttca tcttttttatt 690

<210> 3107
<211> 700
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E10

<400> 3107

gctnaataat tctccggggc ttnnccancc gctccgaatc cgcccctgnn gcntattatg 60

agtcanttgn tcccccttnnt tgntaaacnt ccanaggggg gattctaaac ctttntcant 120

tctcctggtg gtctcttcan tgcaccatgg ctatttacga tgtggttcag cttgtgagag 180

ctgatgtttc gacgattgct cttggcattg ctgcatcaac agcttcgatt attcttggtg 240

cgggaactaa aggcaagcgc tttgctatgc ccaacacgag gataatgatt catcaacctc 300

ttggaggtgc aagcggtcaa gctatagatg ttgagattca agctaaggaa gttatgcata 360

acangaacaa tgtcaccagc attatcgcgg gatgtactag tcgatcgttt gagcaggttc 420

tgaaagatat tgatagggac cggtacatgt ctccaattga agcagttgag tatggtttaa 480

ttgatggagt tattgatgga gacagcatta ttcctcttga acctgttcct gatagagtga 540

aacccgagag taaactacga ggagattagc aaggatccca tgaaattctt ggcttccgag 600

atcctgatga tgagactact aaagcccaac tcgtctagaa gcnnggatct tcaaatgggg 660

cttanactag ccgttccagg aaaactcaat ttcttctgcg 700

<210> 3108
<211> 683
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E5

<400> 3108

gcagcttggt tngaactttg ggctgnttng tgcttgtcct ntcatgatct cacggtaagc 60

acaaagtcaa ggccccgccg ctcgtgcccg acgnatgcta nggataagaa gacggacatc 120

acgccgccgc cggagggacc atcttcatct tctccggaga aggtaagagc atcattatcg 180

cccggatccc gttaagttcc aggtgtccat tctgacaaga aggccgccat ccgctcctgt 240

taattgctat aaggatttat tcccggaact aaaggaggcg tagtcggcgg cgggcacagc 300

taggcgacct tcacggacga gcctaactcc tactctatcg gagacaccta tgtgaccatt 360

gtccttaata attctccatc gtcgtaactg atatctggac cccttacgag atgctctaac 420

ttgataaggt ctcccccaac aggtcgcgtt tcttgaacaa agaagggaag tgcagcccta 480

gcgataccac gcctangaga ccgataaagt cccgggacac ttaanantag cttcgaggag 540

tccatcnttg aggagacaaa gaagcccgtt angtccggac accganttttc gtcctcacta 600

tcccggaaga anaacggacg gacggcnaag gactggctnc cgaggaagaa catcaccggc 660

tagggntcga aggaaaaggg gac 683

<210> 3109
<211> 610
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D1

<400> 3109

ccagtttnca ccggtccgaa attcccgggc ttcttcttat tttatcatag ctaagctcaa 60

aaacaatcga tagatggaga agaagaagag catgttcgtt gaacagagct tcccggagca 120

tgaaattggc gatactaaca aaaactttga cgaggatggc cgcgacaaaa gaactgggac 180

atggatgacc gggagtgcac acataataac ggccgtgata gggtcgggag tgttgtcttt 240

ggcgtgggca atcgcacaac ttggatgggt ggcaggaccc gccgtactaa tggctttttc 300

tttcataaca tattttacat caaccatgct tgccgattgt taccgttccc ctgaccctgt 360

taccggcaaa cgcaactaca cctacatgga agttgtcccg atcctatcta ggaggaagaa 420

aagtgcaatt atgtggattg gctcaatacg ggaatctgat tgggataaca atcggnttcc 480

caatcacagc ttnaattagc atggtggcag tgaaaaagtc naattggttc cccaaaatgg 540

gcataatggt aaatgggccc ctttaaacac ttcctttatg ancatatttg gaatcttcca 600

antattctta 610

<210> 3110
<211> 659
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B8

<400> 3110

cgtnagcacc ttggcttgga ancttgggc tgcnttatgt gcttgtcgag cgaaaaagtc 60

cactgtggtg accagccttt ggtgaagaag aagaagagag acnggaaaac ggtgatcaac 120

ggactcgtca gtctagtgta gtctctctag aaggaagtcg acgctaggac gacgcgcgtt 180

gtcgaggcct actccggaat taagaaccgt aaccattaga cggagtgcca tgctcctaag 240

agatgtaatg acggcaccca tactcctaat tccggtaaaa tacgggaaaa gtcttagacg 300

gtcgtcagag ccaccgccgt taccgagaat ttataggata ctactgctta gctagtcagg 360

tttcacggat agagagtcgc gccgaagccc gtctagcata tcggagttaa cgttaccgtc 420

ggaagatata tcttcggcat tcctattaac tagacgtaga tacttcctag cgaattaagg 480

tcgccgacct ccatcggttt aagaatcgat tattattcac taaggaaggc gtcccgggaa 540

ataccttaac taccgnccct cgcgattana tctcctaacg agaaccggcg gtaccggcac 600

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ttantaatat tagggaaagt atataccggg cgtcccctcg gtcctcggtc tgtacggnt 659

<210> 3111
<211> 660
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B9

<400> 3111

ttcttgctct cgatgggaaa gctccaacat ggatctcatg agtgcgagtt gacctcgcgg 60

gggatcgtcg caaacgggat ctgcaacatc tgcttcaaag atgaacctgt tgaattcgcc 120

tgtgaccctt gcaatttcga tctctgcaaa gcttgctcag atcttcccca gaaaatgtca 180

caccatcttc atccggagca ccctctagaa tttcgtatag gcgaagatga tcagaagact 240

aaacacatgg tgtgcgtcgt gtgcggaaac atgtcttctg gagccaaata ctattacgag 300

tgtagcaagt gtgagatcta cctcgatttg ggctgtgcac ttcagaagaa catagcgacg 360

agttgggaag ccaaagaaat gctccattac agccatgaac acttacttaa aaggtgtagg 420

ccaggaccag attccaaaga ctcttgcctt ctctgtgagc aacctctctc cttcactgca 480

atatgttacg gttgcgttca ttggtacttg ntttttcacg agcgttgcct tgatctacca 540

acccgagatt caacatccgt gcattctatg caccctntna aacgccttaa ttatatcaaa 600

cttttgacng tgagaaatct tgtaatgcct gtcacgggca atttgtggtg tccatttggt 660

<210> 3112
<211> 610
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C1

<400> 3112

tggttgnacc tttgggctgn ttatgtgctt gcgtcctccg aagagcttta gagccctaaa 60

gctataagta ctagtctctc gtacttccga gaagaagatt cacaatataa gcccgaacag 120

caagactatc ccaccatact cacggacttc gagatccaca gggtagcggc cacgggcaag 180

gcctaagagc ccgaaaaggc cacggaggag aacgaaacct tcgcctccga ctaggctatc 240

ccctagggga acatgacctc gtactccgta gtcacccacg gctacgatta ttcagcgtgg 300

tgcacttccg ttcacgagtc aaatacctcc agaaaccgga aatgcggtcc aaaccgtaat 360

cctgctttaa gccctctcta ccactagatc tccccggcga gatgaaatca taagggagat 420

tccgtctctt acgcantaat cgtcgtagga tataagccga cagccggttc ctccaccgac 480

cgttcaaagt aagcccttgt aagacacaat cacggggaac ggactanaat aaacggcaaa 540

ccggaaatac ccctagaagc cctnattacg gagggnactc ggaccggatc cccttcgnaa 600

gggaaatttc 610

<210> 3113
<211> 666
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C10

<400> 3113

gcgtttgttc ccaaatcatc aaaccctaat tttctgttaa tttcaattag cttagttcgt 60

cgggctccag agaagtcgaa atgatgggct cagagaatgc cgatggattc gaagaaacta 120

atctcaatgc gcaaagggat gatatggaga atctcgacct aggagtagat ggtggtgacc 180

atcctctgaa gataagcgat gtcaacggtg atacatcgaa ctctggttac cgtagcgcca 240

tgtcaacact ctncaacgtc cgtgacccgc tctcgccgcc accgaccgtt atgattccag 300

ctgattctga tccactcctt gcgccatcct cctacgaaga tttccgcagc agcttcagct 360

ctaagccgat cagcagcgat aactcctaca tcgagcctcc gtcgtatgca gatgttatct 420

tcagtccctt tgatgagaac tcagatagcg agattaacgg taccgaggat aatagccttc 480

atagtcaatt ctcagattca ctatcgagat ctcttcttct tcaagctctg attacatcaa 540

gatcactgna tctaaccctn agaaagagca ggagatttca aattccattg gtggaggaaa 600

cacttacatt acctaccaaa ttcgaccaga acgaatttcc tgcttttggc gggccatcgg 660

agttta 666

<210> 3114
<211> 718
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C5

<400> 3114

acgccncccg ttggttngaa nctttgggct gcnttatgtg cttgtaaaga gccacgaatc 60

ctcgtgtagt agtcaaattc taatgcggaa gtagcacccg ttttacnacg aaatctaaaa 120

agagcggaaa ctatatcccg gtaaaagacg ggaaataccc gtatagagga aataagttca 180

tgatttctca gtgacctcag tattcggtta aagaacacct taaaagataa taggaaaacc 240

actctttact taatctgtaa agctaaaggt aataggaagc ttctaaaggc attaccatgt 300

actaacatcg ttgaaattca gaatcgcaca aaagcccttc gcgcttgctt ccgcaattgt 360

ctaggtcagg tagtaagaaa gcgaaaaacc tccctccccc cgccctcccc ggcgaataat 420

aaaccccata gctcgaaata gaccgggata accgcacagg actcttacaa aaacttcatg 480

tagcgctacc aaaaaaaaaa aaaaaaaagg gtggntgtct canaggactt aagtccatgc 540

atgtgcgtac cgttgaaggt ncaatccccc ccacaggggt attcnaacct aaccnatccg 600

ggttgcngnc cccattaatg cnnnngatcc ggggaaaaat tttcgggtgc ccattttaat 660

cccaaactgt tcccggnagn aataccttt tnccccngtt taanccgggt gcaaacaa 718

<210> 3115
<211> 661
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C6

<400> 3115

ttgggctgnt tatgtgcttg tctcgtatat caaaacaacc gcattgatct ctctctctct 60

ctctcttgca ataaaanggg ggttaacggt aaaatancan tctcccgcat cttctctaac 120

tcttcactct ccactatcgg agtctatggt ggttattgta gttctataga ttggagtcct 180

taaaaaagtt acaaatccta cttaactcct ccgtaaaatt attatacatt tcgttccacg 240

cgcttatcta tctcttgctc atgtaaatga tacttaaata agtttcaaat gcccagtcga 300

gattgtcaca gttgcgatat caagttgagt ttaacttatg aagtctcctg ctctgtgctc 360

aatatgcacg aagggctcca agaagtgtga ggctgaagtt actaaagacc gtgctgagga 420

gacgaatgac attgccgatt gcccgattaa actcgcctaa gatcgaagcc gcgcgggagc 480

gttaaagact aagattagcc cgtgcattat acgagcaacg tctagatccg gatcancgtg 540

gtcccgatcg atgagaatat ccgtcttgac gggcctctgg gctgggccac ggacgggagg 600

actaagaatc tggcctgggt cagactacga atgcgggata cgaaattagt atgtccccgc 660

t 661

<210> 3116
<211> 636
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C7

<400> 3116

ccngggccct agagatggtc gacccctata cttataaagc acggtgatct aaactagggg 60

ggaanagaaa gcccgcagtg gacggcgcac ctcatgtcga accgaacgag gcctctataa 120

gagagtcagt anaggacggc catctcggcg ccgaggccag ggccatctta acgaggatcg 180

agaccactac tagagtcatc tgcatctana acgcctccgg cgagaagggg aggagaacca 240

gggaaccgat actctccgct tagaagagac ctaagcctta gccgatagcg ccgagtctca 300

cgtcgagaag gccaataata gaggctctcg cgttaccgtc tantcgagct ctcatgccat 360

aagtcctctg gcggctccgt cgcctgtagg gttcgccacg gcgccccgag acccgccacg 420

gagagcggag tcaanggacg cgaggctact gcgagcggaa agtcntgcgt cgtatgcgtc 480

aagcttacga agcctaagga cggncattcg ggcctactcg gctaatttat ccaaggaaca 540

tactgacgtc nancgaaata cgccccgtct anatangggg cgccgggaac taaggcgaaa 600

ntacttccga tcgggattctc ctggtaaact aggatt 636

<210> 3117
<211> 663
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C8

<400> 3117

tggttcgaan cttgggctgn ttgngtgctt ggnaaagagg aggagaaatg gtgtnanatg 60

cggtggcgat tgcggcgatc ctggntgcgg gcctnctngc ngatgcggag gcggttgcgg 120

ttgcgactgc ggcttaagag gttgcggaag atgcggaggt tgcgttctgg aagaaatgaa 180

acgggcctta gcgattaatc aggctgctca gcggtcgata acaaaacaat gaagtcagag 240

tagactcact cctacctctc tttagcaaag gagcattaaa ctacagacta ctccgccggc 300

ttcatgccga aagatgaggc cacgaagact acgttcgcct acaaataaat tanagtcggc 360

taaaggatca gacctaaggt tcccgccgcc gccggcgacg gaaacggcta cgccggcccg 420

ggcgctaagc gcctcaagga agccgtcatc gttaccagag gagtcaccac ctccgtcaag 480

tcactaacgg ccntngcgaa gagaggccac cgggggaaca agaccgggaa attatatatc 540

cgcgttcccg caaggccatc ggcaaacgcg ggctccgcat ccgngaanaa cggncntccg 600

tccttnaaaa ggcctccggc accggncgtc gtccanggcc cttcaaanaa ggcctcccta 660

aac 663

<210> 3118
<211> 673
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B7

<400> 3118

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aagtctcatc tgaccctcta taacttgtta cgaatctata agtccgctcc tcctcctaga 120

aatagtccaa agactcccgc aagtacttcg cagacggacc tctcgtcggc ccagccgacg 180

agaagaacac acctgaacgg agtgcaatca ccaccggatt cttcgacatc tctcacgaag 240

gaggaccccc tcacgttacc acgctacctt tataaaatca cttcaacagt ttattcatgg 300

cgtggcccat cctagacacc cggtacttca atgcccactt tgacggttgt gcccgcacac 360

tcacctcata cttcttcggc gacgacttaa gcggacacga gtccgtaagc gagtgccgga 420

tgttcgccta tatagccgag agcactacgc cgagcaccac actaacgtct ctcggcttta 480

atgatgaact cttagtaaat gccgaggtcg tcaaagaacg gagagagaag agagacgagc 540

ctaagaagaa agcgagttgc cgcgctagaa agctctaaga aacggcccga ctaaagaata 600

tccctatatc ntatattact cctcacggag cctaaaagtc tacccactcc actgaaaaaa 660

accttcccgg aaa 673

<210> 3119
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D5

<400> 3119

ccggtcacgg tntcccgggt cnacccacgc gtccggncat tgtttgtggt tgggctcctc 60

aagttgaaat cctagcccat aaagctgtgg gaggattcgt atctcattgt ggttggaact 120

cgatattgga gagtttgggt ttcggcgttc caatcgccac gtggccgatg tacgcggaac 180

aacaactaaa cgcgttcacg atggtgaagg agcttggttt agccttggag atgcggttgg 240

attacgtgtc ggaagatgga gatatagtga aagctgatga gatcgcagga accgttanat 300

ctttaatgga cggtgtggat gtgccgaaga gtaaagtgaa ggagattgct gaggcgggaa 360

aagaagctgt ggacggtgga tcttcgtttc ttgcggttaa aagattcatc ggtgacttga 420

tcgacggcgt ttcataagta antanaaatg cgtcattttc atgtaattgg gcatgtggcn 480

acaa 484

<210> 3120
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E1

<400> 3120

gcntccggtc cgcaggcacn gggtnggccc acccgtcggc caaaacgtcn gatcncttct 60

ttgtcaacat gaaaacatcc aaaaagaaat cgaaacaaaa aacaaaagaa aattaggatt 120

ggacaatgga gctttcaaat ttggcaaaag caggattgtt ttaaattatt ttaatattgg 180

gttaacgtct ttttttgttt gtttccctct attagctaag ttttggttta gactttagat 240

cgaattgtgg agtttttagt ttttgacttt gtttacatca gcttttgttt nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg gcg 353

<210> 3121
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E10

<400> 3121

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gccgtcccca agcgctacga tctccgcctc aatcccgatc tcatcgcctg caccttcact 120

ggaactgtag ccatcgatct cgacatagtc gccgatactc gtttcatcgt tctcaacgca 180

gctgatctct ccgtcaacga tgcctccgtt tccttcactc ctccttcctc ctctaaggcg 240

cttgcagctc caaaagttgt cttgtttgag gaggatgaga ttctcgtgct tgagtttggt 300

gagattcttc cccatggagt gggagttctg aaacttggtt tcaatgggag tactaaatga 360

caaaatgaag ggattctaca gaagtactta tgaacataac ggtgagaaga anatatgggc 420

anttacccat tttgaacaan ccggatgcta ggaaatgctt tcaangt 467

<210> 3122
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E3

<400> 3122

ctggngtncg cggtccgagt ancccgggtn gnccccacgc gtcngcaaaa aaacacatcg 60

anantanaga tactacaaag tatacgacaa cttctttttt tgtttgtagt aataattata 120

gccaaaaata gacaaacaaa atggagagaa agcctcttga acttgngtcg acggataacc 180

accagaatcc ttcctccgcc gtatacggtg gctctgttac ggcggttgac tctgttgaag 240

aagatgttca gaatcagaag aaagtcgttt atagaggctg gaaagtcatg ccctttatta 300

ttggaaatga gacatttgag aagcttggga tcattggaac actatcaaac cttctggttt 360

atttaactgc agtcttcaac ctgaagagta ntacagctgc aaccatcatt aacgccttta 420

gtggcacaat taatttcgga actttcgttg ctgcttttct ctgtgacact tacttcggtc 480

gatacaagac tctaantgt 499

<210> 3123
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E4

<400> 3123

naaagaaggc aggaaggtga agcagccaat ttaatttcga tggatgttga tgagccaact 60

actaaagtga agggtaaatc aaaagttggt gagccggaga aagcagaact tgggtctgaa 120

aaatctgaag aattggccag ggtaactttt attttgaagt tgttgagtga tattgttctc 180

atgtacctac atggtaccag tgtcatactg agacgggata cagaaatatc tcaacttcga 240

gggtccaatc tacctgatga ttcacctgga aatggagggt taatttacca tgtcattcat 300

cgattgcttc ctatatctct cgaaaagttt gttggacctg aagaatggaa ggagaaactg 360

tctgaaaagg cgtcctggtt tccnggttgt tttgtgcagt ccttccaatg aanggcgtaa 420

aagaataatc aatgagct 438

<210> 3124
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E5

<400> 3124

tncgaatcat cagaaaatgg atttcgagct tagatcagcg aaagagaagc ttgaaagaga 60

gcagagagag aggaagcaaa gagcgaaact gaaactcgaa cgcgagaaga aatcanagga 120

agctgcgatt aagcaacgcg aagccattga agctgctcaa agagctagaa gacttgacgc 180

catcgaagcc cagattaagg ctgatcaaca tatgcaagag agtttagtat ctggagatgg 240

aatagtgttt gaacgagtct tccaagctgt ttcttttcaa ggaaatggag ataagattaa 300

actaccacca tcatgtttta ctgagttgtc tgatcaagga gctttcgata aaggtccttt 360

gtattttgag ctctctgttg ttgaccatcc ggataatann nagacaacac attctggtgt 420

tcntgagttt atgctga 437

<210> 3125
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E9

<400> 3125

tgcttcatcc aaggtcttga agatgggtat aaaagtttca tcaaagatca aaagaattct 60

cgcatccaca gcttcaggta gttcaaatcc caaagatggt gctgacgtgg atgtccgaga 120

ggaatatgca aacgcctttc gtacggaatc atacaatcac ttttggacac gtgtcgtaca 180

gctaagccgc aaaaagtccg cagtgtcttc ttcttcttct tctccaccaa tcgaatcatc 240

ctccacgtca gctcgtctca tgtcttatcg cctattcgcg cacaatcttc tagacccgga 300

tctgaatacc attactcgga tactanatgt atcccgggtc gggcnaaaca cccgaaactc 360

ttcncncnga ttacttcttg gaaacggnaa angctttctt gctttgcacg cantta 416

<210> 3126
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F1

<400> 3126

accgggtcga cccagccttc ggccaaancg tccgcggacg cgtgggcaag aagatatgtt 60

gcagcagcag attttacagc agttgatcca gcgtcaggac cccacgggga ggaatccgca 120

gatgcaagct ttgcttcagc agcagagact gaggcaacat cagcagatgc ttcaatccat 180

gtcaccctct cagagactcc aacttcagca acagcagcag ctgagacagc agttacagca 240

acaaggaacc caacagattc ctcctaatgt acgtccttat gaagttggcg tctgtgctcg 300

gaaattgatg atgtacttgt atcatctgca gcaacggcct gctgaaaatt gcattaccta 360

ttggaggaaa tttgtggcag aatacttttc acctcgtgca aagcagagat tgtgcttgtc 420

acaagtacaa aagtgctggg caccatgcgc ttggcatgtt cccanaggc 469

<210> 3127
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F12

<400> 3127

gaggtatttg tgtttggatc ctttacagaa catgaaacta ggtcattttt tgagcagaaa 60

cccactaagg atcctcagaa ttctaaagac aagtgtgtgg gaagtattca atttggctcc 120

ttgaatcttg ctgcggaaaa ttcttcagta aatactaatg gcgagttgaa gaaaggtgag 180

gctgatggga cagttaaatc tgctgggtct caagagagac ttgatgcttc tagacctgcc 240

agctcggata agaacaatga tagtgatgca aaactcccaa gaaagaactc tttgagagtt 300

ccagagcatg tggtacaaaa tggaatcata aangagatct ctgaaagcaa caaatctctc 360

aacaatggtg tggcggtgaa aacaaatccn attggtttgg anaacttgcc aagtcca 417

<210> 3128
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F3

<400> 3128

tgtatcncgg tccgaggcac cgggtcgacc cacgcgtccg gacaaatcta aaggtgcaaa 60

gcaaacgctt ctagagcggc catggttcct cgctgtggct ctagctggtc ttataggtgg 120

cgcaatgctc atcacaagct tcatccgagc tacggacaan accttgtcac tctgctccac 180

ggctaagaac acagctgcgt ctatagccaa atacacagcc accccaatcc aactccaatc 240

catcgtccac tacgccactt cacacaccgt ccctcaacaa tctttcgagg agatctcgat 300

ctctttaaac gtcctcaagg agcgtctccc ttgtaacttt ctagtctttg gcctcggccg 360

cgactccctc atgtgggcct ccctcaatcc aggtggcaca actgtgttct tggaagagga 420

tnctgantgg atagaggccg tcctcaagga cgccncatcc ctcaagggcc aacatgttca 480

a 481

<210> 3129
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F6

<400> 3129

gccgcagnct accggtcata gatcccgggg anccaacttt cgaagaagac gactaatcaa 60

ttcatctgat tatggagaga ctacagagaa tcttcggagc tggtggcggt ttaggtcacg 120

catcgcctga ttctccgact ctcgatacat cggagcaggt ttacatctct tctctcgctc 180

tcctcaagat gcttaagcac ggaagagctg gtgttcctat ggaagtcatg ggattgatgc 240

ttggagagtt tgtggatgaa tacactgtta gggttgtgga tgtttttgcg atgcctcaga 300

gtggtactgg tgttagtgtt gaagctgttg atcatgtntt ccagactaat atgctcgaca 360

tgcttaacca gancggaaga ccttgagatg ggtgggttgg gttgngtatc attcacatcc 420

tggatcggct gctggcttct ggggttgaca ttaatactca ncanngtttt naagctttga 480

tcanggaact g 491

<210> 3130
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-010-Q1-E1-F7

<400> 3130

ttttagctac ggtcagcttt tctctagcgt cggggcctcg atctcttgat ttgagctttt 60

cttaggtctg tctctctctg tacactctct ccgccgtcgt atctcgccgt cgatttcaat 120

ttttccgacg atatgaagct caccgttaaa actctcaagg gcagtcattt tgaaattagg 180

gttttaccct ccgatacgat aatggcggtg aagaagaata tagaagattc acaaggaaaa 240

gacaattatc catgtgggca gcaattgttg attcacaatg gaaaagtttt gaaagatgaa 300

actagcctgg tggagaacaa agttacggag gaaggatttc tcgtcgttat gcttagcaag 360

agcaaatctg gaggttcagc tgggtcaggc ttcggttcag acttcttctg tttcacaacc 420

tgtttccgct accacatctt cgactaa 447

<210> 3131
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F9

<400> 3131

ctccgatcgt tggcctcctg tttccgtttt actcgacatc gttccgacga cttttgacct 60

ggaatcgacg cagtgacttc aattcaacta ttgcacttgg tttgttggca atggacaaag 120

gagcacctcc tagtattttt gtgaatgatg ggtcattcat ggaaagattc agacagcttc 180

aacaggagaa agataaagac aaggataagg ttgtccaagt tgaggattct aagccggtga 240

agattatatc aaatcccaaa cctgctgcta ataaaatttc cattggatta aagcccaatg 300

atgcccagaa gaaaggtggt aagcttgctt tcagcttgaa gcaaaagtct aagcttcttg 360

cacctcctgt gaancttggt acagaagaag atgaggatga tgaggatgtt aaacatgaac 420

aaggctttgg atccgtaaac c 441

<210> 3132
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G10

<400> 3132

gngattgatg agtccaagag agcaagtctc ggaaagtgtt caagaatgct caagcgccat 60

ctcacggatt ctgaacttcg acaagtcatg aatgccgaga tcacctgcaa ggcgaatcaa 120

ttgccttcac gacttatcat tgtcaatgac aagcctttaa gtgaagatga gctttacacg 180

ttgcagacat gtccaaatcc acccaagaag ctaaaacccg gacactattg gtatgataag 240

gttgctggct actggggaaa gataggagag aaacctagtc agattataag tcctaacaac 300

agcataggag gatacatcag tgagaaagta agcaatggan acactgaaat ttatattaat 360

ggccgggaat aaccaagcca gantcacgat gctcaattgg gcgggggtga attttnaagg 420

aaacctcatt ttgggtccaa tcanatgg 448

<210> 3133
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D4

<400> 3133

cgtctncctg cgccacggtc cgagnaccgg gtcgacccac gcgtccgttt aaancnaagc 60

aagnnnaaaa atgggnaatc cgganttnaa naaaannnga ancaatngag ntnnacctnc 120

gccaacgggt ncctggcaaa gttagtgaag acgacaagct tgttgagtat gatgctttgc 180

ttctagatcg gtttctcgat atcctccagg atttgcacgg tgaagatctc cgtgaaactg 240

ttcaagagct ttatgagcat tctgcagaat acgaagggaa gcatgaacct aagaagctag 300

aggagctagg gagtgtgcta acgagtttag atccaggaga ttccattgtt atcgctaaag 360

ctttctctca tatgcttaac ttagccaatt tggctgagga agtgcagatt gcttatcgcc 420

gtangatcaa gaagctgaag aaaggtgatt ttgttgatga gagctctgct actactgaat 480

ccgatcttga anaaact 497

<210> 3134
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B6

<400> 3134

cgtgtntacc ggtccaggta tcccgggtng acccacgcgt ccgcntacct tcaataagta 60

actctacact gaatcaactc ctctgatttc tcgataaaaa tctagaggca agattcccca 120

cggaattaag gtttctttgt taacctctcc attgaagata tgggggaact aaacggagtc 180

atcattccga ctatagactt ggaagaggtt tctgataaga ttctgaatca gaaaatccgt 240

gaagccagtg agagatgggg atgtttcagg gtgataaacc atggagtttc attgtctttg 300

atggctgaga tgaagaagac tgttattgat ctctttcaac gtccatacga ggtgaaagtg 360

cgtaacaccg atgtgctcct agggagtggt tacagagctc canacgaaat caatccttac 420

tatgaagcat tangtctcta tganatggct tctcctcatg cngtcaata 469

<210> 3135
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B9

<400> 3135

cacaattccc acagnccacc cngnccnccn aagcgtccga aaagatggtt ttgacaaaaa 60

ccgcaacgaa tgatgaatct gtctgcacca tgttcggatc tcgctatgtt cgcactacac 120

ttcccaagta tganattggt gagaattcga taccgaaaga cgctgcgtat cagatcataa 180

aacatgagct gatgcttgat ggtnacccaa ggcttancct agcttctttt gtgactacat 240

ggatggaacc agactgtgac anactcatca tggactcnat caataatgaa ctactttgat 300

atggatgatg taccctgtca caactganct ccaaagncga tgtgtaaaca ttataactcg 360

actgttcaat gcgccactcg angaatctga gacggcggtg ggagtaggga cagttggttc 420

ttcataagca tcatgttaac ccngattggc cttcaaaaga aatggctgag cna 473

<210> 3136
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C1

<400> 3136

anagaccggg tcggccccgc ctccgaacan anctcatcct cgtcaacctc ttcctctccc 60

gctgtcgcca agattgaatc ttttttcagt tgtggcttca ccggataata aggaattcag 120

taagagataa gttcatcctg acaacatgga gaccaagaat gagaattctg atgtttcacg 180

ggcagaggag tttaaaagtc aggccaacga agcttttaaa ggtcacaaat actccagtgc 240

tattgatcta tatacaaaag ctattgaact caacagcaac aacgctgtgt attgggcaaa 300

tcgtgcattt gctcacacaa aactggagga atatggcagt gcaatacang atgcatcgaa 360

ggccattgaa gttgattcaa gatactctaa nggctaatac aaggcttggt gctgcgtacc 420

ttgcaatggg aaaatttaag gttccttnaa gggcttcaac angtaaaa 468

<210> 3137
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C10

<400> 3137

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tgaaggcgct ctgcgcaaga taatcttgac tgcatctggt ggagctttta gggattggcc 120

tgtcgaaaag ctaaaggaag ttaaagtagc ggatgcgttg aagcatccaa actggaacat 180

gggaaagaaa atcactgtgg actctgctac gcttttcaac aagggtcttg aggtcattga 240

agcgcattat ttgtttggag ctgagtatga cgatatanag attgtcattc atccgcaaag 300

tatcatacat tccatgattg aaacacagga ttcacctgtg cttgctcaat tgggttggcc 360

tgatatncnt ttaccgattc tctanaccat gtcanggccc ganaaattcc ttgttctnaa 420

ttacttg 427

<210> 3138
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C3

<400> 3138

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agaagaagca agacctctca tcgaagaagg tttaatttta caggaagtga aattgtatgc 120

tgaagatggt tcagtggact ttaatggaaa cccaccattg aaggagaaaa caggaaactg 180

gaaagcttgt ccttttattc ttggtaatga atgttgtgag aggctagctt actatggtat 240

tgctgggaat ttaatcactt acctcaccac taagcttcac caaggaaatg tttctgctgc 300

tacaaacgtt accacatggc aagggacttg ttatctcact cctctcattg gagctgttct 360

ggctgatgct tactggggac gttactggac catcgcttgt ttctccggga tttatttcat 420

cgggatgtct gcgttaactc tttcagcttc agttcccggc attgaagcca ncggaatgta 480

ttggtg 486

<210> 3139
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C4

<400> 3139

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tgatctcact attgttggct tagaccttgt tgatggagac tcaagttccc agagccaact 120

tcaacaacaa ccacattacc tgaagacatg ttccaaacca aacctggatc tagggagtgt 180

ggtgtacctc ttaggctatg ccaatcagaa tgaactcaag atcggcgagg gaaagttagt 240

tgtagctacc gacaatctca tcaaactctc aactgatgaa atgatttgga gtcctgnatc 300

tgctggattt gatgttcaag ggaatcttgc attcatgatt tgtgatccga ggaaactatc 360

gacatcacca acctcaacct cgtcatcttc ctcntcctct ttgaagaaaa gattncaaca 420

angacactga tgatgcactt tgggtataca atac 454

<210> 3140
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C6

<400> 3140

cagactgagt agtcaccaag tgaatatgct tctttcatcc ctatggatcc aagcaacttc 60

taccgacaat acccctgaaa attttgaggc catggccagc acatatcaaa tcactttact 120

gttttcacta gcaaagagat caaatcacat ggctctggtg cagtgttttc agctggcatt 180

ctctcttcga aatctctcat tgaatcaaga tggaggtatg cagcactctc gtanaagatc 240

tatcttcact tttgcatcat atatgctcat tttcggtgcc aagatttcca atattctgga 300

gctagttcca attatcaaag aatctttaac tgcccaaatg gttgatcctt atcttgtgct 360

ggaaggagat atcagactgc gtgctgtatg ttctggattt ccacaggaag aaacgtatgg 420

atntgacaa 429

<210> 3141
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C7

<400> 3141

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tttataaaac aaaaaacann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aactcggatc tacaaaaaac 180

catgtcggaa actaacacaa ccgatgccaa gactgttcca gcagaagcag agaagaagaa 240

agaacagagt ttaccattct ttaaactctt ttctttcgct gataaatttg attatctctt 300

aatgttcgtt ggttctcttg gtgccattgt tcatggntct tccatgcctg tctcctttta 360

ctcnttggtc aaatggttaa tggatttggt aaaaaccaaa tggatttaca tcaaatgggt 420

catgaagtcn caagatatcc ccaa 444

<210> 3142
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C9

<400> 3142

ttacgttcca ggtcgaacgg tcagggttcc gggtccaccc angcgtccga acagtattgg 60

tctacgggtc ggccaccgta ttgattatta gattgcnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnngcaagct aacatggaat cattaaaagg aggtctacga agtatgacgt 240

gaagttgaag acggcgataa tattgaagat caacaattca gtagatggnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngatga 420

aaaaaaaaaa aaaaagggc 439

<210> 3143
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D1

<400> 3143

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ccgtnccggg ggttnaaaaa aaaattgggt ttncacccna angnanacca agggnctncn 120

aaaaccaaaa ggggccggga tttcaaacaa caatttggga ncctgggttg ggtcaaattg 180

ggaagcctca atcaccaaga actncgggct taaattgcta aattttaaat ccgaanggan 240

gggagggaaa ggggtgcatt agagtgggcc aagaaggggc acataagaac agcttgaaga 300

caaagctcat agaagcacaa atcgagagcc aaaaggttca gctgaagcat gtccttgagc 360

ataagatcta ggccacaaca tattccaaaa ctaccagtcc taggccattc tactaatctt 420

tgtggctgag cagcaagaac tggatttttg attccgttct cctgctattg ccattgtcgc 480

atgatctaac gctgggtcaa accaatcaac gtgggtatat tttcgttanc taaaagcaaa 540

atgatcttgt gaattgatta ctgtcatacn ttggtggggc taacttca 588

<210> 3144
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D11

<400> 3144

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tcctcttctt cccaattgac ccatttgaaa tcacccttca aagctgtcaa atatacgcct 120

ctgccatcgt ctcgctccaa gtcatcatcc ttctccgtct cctgcaccat cgccaaggac 180

ncgcctgttc tcatggccgc cggatntgac ccggccctgt ggcaacgaan cgattcgttc 240

ggtcgtttgg gaagtttggt gngaaagtat gtacctgaaa acccttatgc acgctccaat 300

ctgagcttga tccgctttct atgctcttgc nacggacnat gatttcnana naganttggc 360

tggaatcttg aaggactatg tgggtanaga aatcctcngt attttgcaaa aaggttacgg 420

agcattacag gcncaaaatg g 441

<210> 3145
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D12

<400> 3145

aattttcacg tttcttacat gtacatatat atagtaaaac aaatctctga agacacacaa 60

gagaatcaag aacaatgaaa aatttaacca gtttcgtaat tgttatctta ctacaaagct 120

tattgtttca tgtatatggt cgtcatcaaa gttcttcgaa gaacatttta gtagattcat 180

ctccatttcc ttctgatttc ctctttggta cagcttcttc cgcttaccag tatgaaggtg 240

cgttcttgac tgatgggaaa aagtttgaac aattgggatg tctttacgca taaaatcctg 300

ggaaaatact tgacaagaac aatgcagata gagctgtggg accaatataa tccgattttg 360

ggtaattcct aagataatta attcttcaat tttgtcctgn caactccttt acatatanat 420

cccatataa 429

<210> 3146
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B5

<400> 3146

aaactaaagc tttcttcaat ggaagaagaa acccacgacg gatctctcga tctccaagag 60

attcgcaggc gcgtgaaaga gctcgatttc tttccccgga attgcagaga agagcctgta 120

gaatcgtgta gttccgatta cgagactctg gtggttcaag attttgttct tcagtttgaa 180

ccaaaggtga aagagattgt tgaagaatac ggcgatgttg atttattgga tgttgaagat 240

tcagatgctt acttggagta cttgagaaat gagcttcagt ctgtggaggc tgaaagtgcc 300

aaagtttctg aagaaattga acgtctttct cagtctcatg cccaagattc tagtangttg 360

caaagggatc ttgaaggtct tttactgtca ctgggattct atgtcatctc aggatgtgga 420

gaagtcaaaa gagaatcaac catctagcaa gctc 454

<210> 3147
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H1

<400> 3147

cgcgtccgaa ttgntctcga ttctccgcga ccatgcaaat ttagggtctt cgttttgttt 60

gatgggcgcg aatatctcgg gaggttcacc ggagtttgac cggaacgatg acgtttactc 120

gaggaaactc agattggtgg atttacctga gaattgtgta gcgttgatta tgacacggct 180

tgatccacct gagatttgcc ggcttgctcg tctcaacagg atgttccgtc gcgcttcctc 240

agctgatttc atttgggaat caaagttgcc tgcgaattat cgtgttattg cacacaaggt 300

gttcgatgaa attactctga cgaaattaat aaagaaagat ttttatgcaa agcttaacca 360

gcctaaacct cctcgacgat ggnacaaaag gaattgtgga tagataagaa caacnggtcc 420

gcctttggtt aacccaattc ctcaaa 446

<210> 3148
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H10

<400> 3148

ccaggcgtcc ganctctctn actctatctt tctctcttca ccatttcttt atcttccatg 60

gaagaacagt cttcaacaac aaactaaaaa catgtttcta aagttgtttc ttctcttatc 120

tttggtctcc ttctcacact cagactcttc ttccacagtt tcttgtccta acggcacaga 180

cttccatcaa ctaaccacag tttttcgtta cgtctccggt ttcaactctt cctggttctc 240

ctcaaactgc tccgccgtta tcactcacgt cgttcttccg tcaagaaaac taaacgggaa 300

cgttttcttg ggaaccctaa tacgtaatct caanggcgcc ttaagtggtt ccttggattc 360

tcctccaaaa naaactcctc ctccgaaagg ggttccnccn ttcccaaant tgggggtccc 420

gggncccaaa ggccaaaggt ccctgggtcc ncccggttta aatccncctc cncngggnaa 480

acggggnttt ggggtggggn tcccaaaaaa ngaagtggga tttccaagtt ttaa 534

<210> 3149
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H11

<400> 3149

gtacgcctcc anaattccaa ggtcnaccca ngcgtccgng tttttgnttc ttcttctttc 60

aaaatctcaa gcaaaagaaa aaatggagct attcacaaaa ggtaacaacg ttaagttacg 120

tagccaccta gataagtttt tagtcgccga cgatgaccaa gaaaccatcc gtcaaagccg 180

taaaggagat gcacggcgtg ccgtttggac ggtggagccc gtcgtcgata aacctaatct 240

gataaggtta aagagcagcc acggcacgta cttaacggcg agcaacaaac cgttattgtt 300

aggtatgacc ggtgagaaag tgactcaaac ggcgtcgttt aacaagctga tggattggca 360

aacgcantgg gaaccggacc aaaatggttt caggtgaacc taaatccttg ggnc 414

<210> 3150
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H12

<400> 3150

ccaggcgtcc gnaaaaccaa attttgtcaa tctaatttat cttctcctct cccggagaag 60

aaggaaactt acaatttaca aagaacgagc ttcaataaaa atttccaaag aaattaccgt 120

cggcgaatcg ttaggctcga gaagaatcac caaattccaa ggggagagag actgaatttt 180

cttttgattc acgtaacaac aacgctcaga gactatgtcg tcggaggtga aacagctgat 240

cgtcgttgct gaaggcaccg ccgctttggg tccttattgg caaacatcgt ccccgactat 300

cccgagaaaa tcacaaggcc ttccggtgga attgagttta attggaaaaa ggaacccggt 360

tccaacggnt gaacnaacan cggggatntt caaatcccaa gggtcaaaat gtgcctgcct 420

gggnacaacg gantggctgg acnaaggang ttgataattt cctgcaatgg n 471

<210> 3151
<211> 521
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H4

<400> 3151

ggtccccngg gcccccgccg ntcccgaaaa caacgacgtt ccgggaattc caatgcccgg 60

aattccggtt annagaacga acgaanggtt tcaagattcg ttccgtnggt nncttnacna 120

agggggaacg ttgaaagggc naaagtttgt tccanggttt tacccgttcg cnanatgggg 180

tgattcaaca atcgaagaag aaatccacga angggagaaa ggtgaatggg nacaaaccgt 240

gaacgttggg gattcagccg tcgaaagttg tgataacgaa gcttcgtctt gataaagata 300

ggaaatcgct tttggagagg aaggctaang gacgtgctgc tgctgataag gagaagggta 360

ctaagtttac gtctgaggga tgttatgcag aacgttgatt aagttaagaa aggaagaaga 420

aaatccttcn tgaaaagggt tttaaccttt ttagaagttt atccttcaaa tccgcctttt 480

taantttcc aagttttggg taatttttgg naatgtttgt c 521

<210> 3152
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H6

<400> 3152

ganccacgcg tccgcggacg cgtgggtgat gannnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnngctgta gctcatggtg gctatggcgg tggtcacggt ggcgacatgt accatccgat 120

gatgtacgct cggccttatc ctgcagttaa ttatgctcac cctccaccaa tgccgcctcc 180

tcactcggat tcttatactc atatgttcag cgatgagaat ccaggtagtt gtagtattat 240

gtgatcatct tttgtaatgt tatttagaat atggacatgt atgcttgtct tagtcttatg 300

ttttttttt tggggatgtc cttatctttt ttactttgga ggattggnaa caaaatgtgc 360

nttaattttg tagtggaatg atgttaaaat atcccaattt cggaaaaaaa aaaaaaaaag 420

ggngg 425

<210> 3153
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A1

<400> 3153

ttaaaaaacc ggtanaaagg ncccctttgaa ggataattag gcaaatgcna tcaggaaact 60

gtgaccccaa tggacctctc atgctcctaa cgttatccaa agaatgattc caagcctcct 120

gaacaaaggg gttanaattc tttgcctttc ggtccgtgtc tttgctgggt aaggttctac 180

tgggtatgaa ggtcagaatc atgggtccca actatatccc tggtgagaag aaggatctgt 240

acactaagag tgttcagagg actgtcattt ggatgggtaa gaggcaagag acagtggagg 300

atgtcccttg tggtaacact gttctatggt tgggctggat nagttcatca ccaagaatgc 360

tacattgact aatgagaagg aattgatgct cacccatcgt gcatgaattt tcgtgtccct 420

gttgtctgtt gcgtcatgta agtnctcgac tccaa 455

<210> 3154
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A10

<400> 3154

tttagaaaca caaataaaag tttaattact tttaagccca acaaaaatgg gttatgctaa 60

atcagccatg ctgatcttct tactagcatt ggtcatcgca tcttgtgcca cggccatgga 120

catgtccgtt gtttcctcca acgataacca ccacgtgacc gccggtcccg gccgccgtca 180

gggtattttc gacgctgaag ccaccttgat gttcgagtca tggatggtca nacatgggaa 240

aagtgttaca actccgttgc tgaaaaagga acggcgttna actatttttg anggacaccc 300

nccgtttaan cacnaancgg ganngctgag aacctcantt accggcttgg tttgaatcgg 360

tttgcggatt aaccncncaa ggaatacggn aaaatttgcc atggggctgn tcaagaactc 420

caaggaacca cttcttcaga acaan 445

<210> 3155
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A11

<400> 3155

gagaagaagc aaagcaaaat tcgatcgctc tgggtttttg atcttttagg gtttctggca 60

aatttggatg gaaacctcaa ctttatccaa agataatcat aaaggaagaa gctttcgttg 120

ttgtttccat tgttgcagct ccttcaaaaa ctcttgtctc tattgctttc acagctaaga 180

attctcgatt ccatcgttgt cgttttcgat tttgacgaaa ttgggttctt ctagatttgg 240

ttatggaccg tanagctcaa tcagatctct ctttaggatt cggtagctcc cacgctttac 300

ctctacctca ncctcctaga atcccaatcg ctgatgactc aatcacgctt canattgatt 360

ccagcttccg tccttcgtca atccnaagcc tcctgtc 397

<210> 3156
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A2

<400> 3156

cacggtccca gaaccgggtn gcccacgcgt ccgcatanac gtagttggca tgattactcc 60

atggaactat ccgttattga tggctgtctg gaaagtcgct ccttcacttg ctgctgggtg 120

cacggctata ctgaaacctt cagagttggc ctccctgaca tgtttggagc tcgctgatat 180

ttgccgcgag gtgggtctac cacctggtgt tcttaatatt ctgactggtt taggaactga 240

agcaggtgct ccactggcat cgcatccaca tgttgacaag attgtattca ctggaagcac 300

aacaactgga agcagcatta tgacttccgc tgccaaattg gtgaaaccag tttccttgga 360

gcttgggggt aaaagcccta tcattgtctt tgatgatgtc gatattgata aagctgtgga 420

atggactatg tttggttgtt tctgggacga atgggcagat ttgtantgcc acatctcaac 480

ttc 483

<210> 3157
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A6

<400> 3157

natgcttgct tgctacaatg ggttacgccc agctagttat tggtccagca ggcagtggaa 60

agtcaactta ttgctcgtct ttgtatgaac attgtgaaac tatcggtcga acaatgcatg 120

ttgttaacct tgatcctgct gcggagatct tcaactatcc tgtggctatg gatatcagag 180

aacttatttc tttggaagat gtgatggagg atctaaagct tggtcctaat ggtgccctta 240

tgtattgcat ggagtatctt gaggatagct tacatgattg ggtggatgaa gaattggaga 300

actacaggga tgacgattac cttatctttg attgtccagg ccaagataga gctgtttaca 360

catgttcctg tgctcaagaa ctttgtggag catttgaagc agaanaactt caacgtctgt 420

gttgtttanc tgcttgattc ac 442

<210> 3158
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B1

<400> 3158

nccaatttag ggttcctttc tcgaaanctg cggtttcnga atcancctat ctggttgang 60

ggtttcgttt gatatctggg agaaaagggg gtttctggga aacaanggag ttcataaatt 120

ccgcgattct tgggattcta tcgattcttc atttatatat aaaagcgtga aatgangatt 180

atgatggagt cgaaagggtg ggtaaaaaga agtccaagca gtagtagttc cttattttac 240

gaagctcccc tcgggttaca gcattgaaga cgttcgtcca aacggtggga atcaagaaat 300

tcaaatcttc tgtctactca aactgctcca agaagccatc ctgaagtacc aacgtgcacc 360

gatcttcata atataattat aagccttcct tacttccaag tttanaantt tcctcctttc 420

aaagc 425

<210> 3159
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B11

<400> 3159

cgtccggttt cattcgcctc tcatctcttc gaccaacaat ccactnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnncaagctc cgccacagca gataccgata gaaactccga tcaatcagcc 180

tcttcctcag tcctctccgc ttccaattct cttctccgtg atacctccga cgaagcttca 240

gctgcaggac caagcgattg gaaaacagca naagcttatt gtaaaagtgg tgatacattt 300

gaaggtgaag ttcaaggntt taatggtggt ggcntactta atcgttttca atctcctgtg 360

ggttttcctc cttaaccaca attaagttct tcccgttcct gtaaagagcc tcaaaaaagt 420

natcaagaaa tagc 434

<210> 3160
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B12

<400> 3160

cattcttctt catcgtctct ctatttcttc tgtttccgtc accatccgcg tcagaatcca 60

ctactcagtt ttgtagtgca gggagagaga atggtgtggg atcttgtggg gtttcatcga 120

cgaggatttt gattaaagga ggtactgttg tcaatgcaca ccatcaagaa cttgctgatg 180

tttatgtgga aaatggtatt attgtcgctg tgcagccaaa cattaaggtt ggggatgaag 240

tcactgtcct cgatgctact ggaaagtttg tcatgccaag angaattgac ccccacacgc 300

aactcgccat ggaanttaag ggtaccgana ctaatgatga nttcctcant tggtcaaggc 360

ancggcaatt acctggtgga acaactatgc ataaaaaact ttgttaaacc tgtcaatggg 420

aaaccng 427

<210> 3161
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G7

<400> 3161

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tggctcgtct tcgtggctgc catgtggata cagtcttgtg ctggcatcgg ttatttgttc 120

ggaagcattt ctccggttat caaaagctcc ttaaactata atcagaagga gctttccaga 180

cttggagtcg ccaaggatct cggtgatagt gtcggattca tcgccggtac tctctctgag 240

atcttgcctc tttgggccgc tcttcttgtt ggcgccgttc agaacctcat cggttacgga 300

tgggtttggc ttatcgtcac cggtcgagcc ccgattctcc tctatgggct atgtgtgttc 360

catattcttg ggaaaatggc gagacctact naatactgga g 401

<210> 3162
<211> 340
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F5

<400> 3162

ggtaccggag nggaattccn gggncgaccc acgcgtcnaa ncttcttttg cccgatattc 60

aaatataaaa atgcttaaac agttaggctc acgannnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn ncagccaaat tggttcaaaa agaaaaccaa ataggcnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnacatag agccccaaag tgtaaatgct cttttctgtt 300

aaaataatta ttatgtccta aaaaaaaaaa aaaaagggcg 340

<210> 3163
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G1

<400> 3163

nataacatta accatcttcg tagcaacttt actctcaatc ggttttcttc taagcatagt 60

tctgatcttc tctaccgttt tcagtgttgg aaagagaaag gaaaaggaat ggngagactt 120

ccacaagtga aagtaaaaga gggggaagaa agattgataa atgaagaagt ggtgaatgtt 180

acattaagaa gaagtttgag attctactca atacttcaat cacaagatgg tttttggcct 240

ggtgattatg gtggcccttt gtttctcttg cctgctctgg tgatcggctt atatgtgacg 300

gaagttttgg atggaacttt aactgcgcaa catcaaatcg aagattcgtc gttatctcta 360

taaccatcag aacaaggatg gaggatgggg actacacgta naagggaata gcaccatgtt 420

ttgtcaatgc tcna 434

<210> 3164
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G11

<400> 3164

gnagcagann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnactttttа taatttatcc gcttgtctgc tatctcttac 120

attaaatcta aacctaaatc attagaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnggcat ggctggtctc gatctaggca 240

caacttctcg ctacgtccac aacgtcgatg gtggcggcgg cggacagtnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn aggtttaaat ttaatagctt cnaatgataa ctccggacta agngg 415

<210> 3165
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G3

<400> 3165

ntcttgccgt tacctaccgg tctntnnatt cccgggtccg acccacgcgt ccgaancatc 60

tccttcgtgt tccgagattt gatatcgact aatcgaatca gaggataaga gaatggctca 120

cagaatactg agagatcatg aagccgatgg atgggaacgc tccgatttcc caatcatctg 180

cgaatcttgt ctcggtgaca acccctacgt gcgaatgacc aaagcgaatt atgataagga 240

atgcaagata tgtacacgac ctttcacggt gtttaggtgg cgacctggcc gggatgctag 300

atacaagaaa accgaaattt gtcagacttg ctgcaagttg aaaaatgttt gtcaagtctg 360

tcttctggat cttgagtatg gtcttccagt tcaagtaaga gacacagcac tcaacattag 420

tactcatgac tctatcccta aaagtgatgt caacaagaga gtatttgctg aanaacatga 480

caggaaggct 490

<210> 3166
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G4

<400> 3166

acnagtcnan annttacccg gnngntcctn gtaccgcaan gtacccgttg attcagaagc 60

tgagacaagt tattgttgac catgctttga tcaatggtga gagtgagaag aatgcagtga 120

cttcaatctt ccataagatt ggagctttcg aggaggagct taaggcagtg ctaccgaaag 180

aagtggaagc agcaagagca gcctacgata acggaacatc ggctatcccg aacaggatca 240

aggaatgtag gtcgtatcca ttgtatagat tcgtgaggga agagcttgga acagagcttt 300

tgaccggaga gaaagtgacg tcgcctggag aagagttcga caaggttttc acggcgattt 360

gtgaaggtaa aatcattgat tcgatgatgg aatgtcncaa cgaatggaac ggagctccca 420

ntccaatatg 430

<210> 3167
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G5

<400> 3167

atttcatcta tatataccta agaaagaaaa gagttaaaga agtatatttt cgattcaaag 60

aagaaaaatg aattctcacc agaatcaaac cggagtgcaa aagaagggaa taacggagaa 120

aatcatggag aagctaccag gtcatcatgg acctactaac actggtgttg ttcaccacga 180

agaagaaagg gattgacggc gaaagttatg gcgcagctgc caatgtcatc catggtgcta 240

ctgggtaccg gtggtngttc accanganaa ngaanggaat gacggaaaan gtnatgganc 300

anntgccagg ncaccatggt tcacaccaan ctgganccaa cacaacttat ggtacnacna 360

ncactggtgg tgttcaccac gagaaaaaaa gtgtgaccga naaattatgg agaaactacc 420

aggtcatcat ggg 433

<210> 3168
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G8

<400> 3168

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ttggtgggtt ctgctgtttc tttgatcgat gagatgacaa aggaaggaat tagtcctaat 120

gttgtaactt ataattccat aatcgatgcc tttggtcgtt ctgcaactat ggacagatca 180

gccgattata gcaatggtgg atctttgcct ttctcttctt ctgctctgag tgcattgact 240

gaaacagagg gtaatcgggt aatacagtta tttgggcagt taacaactga gagtaacaac 300

cgaacgacga aagattgtga ggagggtatg caggagctct cctgtatatt ggaagttttc 360

cgcaaaatgc atcagctgga aattaaacca aatgttgtaa ccttttcagc gattctgaat 420

gcttgcaatc cgtgtaactc aattgaaaga tgcatcaatg ccactaaaag gagct 475

<210> 3169
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G9

<400> 3169

tctttctcac gattaatcgc tgagaagaag caaccacctg gagacggcgg agatggcagg 60

gtacagagtg gaagatgact acgattacct cttcaaagtt gttcttatat gcgattctgg 120

agttggcaaa tccaatctcc tttccagatt cactaaaaac gagttcaatc tanagtctaa 180

atccaccatt ggcgtcgaat tcgccactcg taccttaaaa gtcgatggca aagtcgttaa 240

agctcanatt tgggacactg ctggtcagga gaggtaccgt gccatcacta gtgcatatta 300

ccgtggagcc gtgggtgcac tcctagtata tgatgtaact cgccgtgcaa catttgagaa 360

ctanatcggt ggttaaagga actcaagaac cacacagatc caaacattgt atgatgccgg 420

n 421

<210> 3170
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H2

<400> 3170

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atgcttctta aggcaagtta tactagctag attttcgtag tacgcaatta ttttttatgc 120

taaatggaca gtatttgtgt tttgctgact atttttctag tcatatatag ggtgccccaa 180

gtgatatagt gaaaactgca tatgactttt gctttgctgc tgtcattcgt atcgtactcc 240

acagtgagga tcatggtgaa ctacagaatg cctggcagct tttatatcta gtggtaaaca 300

aagagttgct cacatggagt ggtgatnccg gttttactan ganaaatttg cttgatgcga 360

ctctaagctt ccaaccctga tctgggaagg tcaaaggatn tccncnttgc tgggaagtac 420

attcngcagc tta 433

<210> 3171
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H3

<400> 3171

agaagcanct ccgattcgan annaaangnn nttncngttc ctncncaant ggcncggcga 60

gaaccttctn ancccctaat tacaaagttc ttgtcctgtg ggagaacccg attttcaaat 120

ttccccctgg acaaagggat tcatgtcaaa cgccgtctct tttcgtangg gtacgatgct 180

ttcaagcaaa aagcataaag ctactcagca agaacattca tttggagaaa gcagctgttc 240

tattcaatct tggtgctagc tacagccaga ttggactcgg tcatgaccgc accaccgtcg 300

atgggcgtcg tcaggcttca catgcgttca tggctgcagc angggggcgtt cgctcacttg 360

agggataacg agtccattaa ggcgacgatc gggccgagca ctaacgtgga tgtgtcggtt 420

gaatgtgttg gaatgttgga acngg 445

<210> 3172
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H7

<400> 3172

cgtgggcttc ggtaaagctg ctcaccttgt ggacagcact aaccaagttg gacatttcca 60

naaggttctt acagccattg ggaacttctg tatctgttcc attgctatcg gtatggtgat 120

tgagatcatc gtcatgtatc cgatccaacg ccgaaagtac agagatggaa ttgacaacct 180

tttggtcctc ttgatcggtg gtatccccat tgctaagcct acagtcttgt ccgttgaaca 240

anggtattgg gtcccaaaag gtngtcccaa gcaanggtgc aannacaanc cttataactg 300

cnattganna natggnagga ntggatgtcc tgtgcantga caaanccggg acactaaccc 360

tcaacaaatt gantgtggac anaaacttgg tcnaggtttt ctgcaagggt gtggana 417

<210> 3173
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H9

<400> 3173

cgacccttta taaatctcac ttccttcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnctatccag ttccttctgt 120

gcgaagttct tctgattaat ttgagtttct tggaagcttt tactcgatcn tcatcggatc 180

ttagggtttt gtttaaatcc agatcttggg ttttgttaaa taatggcgac tccttatcct 240

ggagcgacgc angtgggttc gtactttgtg gggcagtant atcaagtgtt gcagcancag 300

ccagatctta ttcatcagtt ttattctgag cctantagag ctattcgtat cgaaggngat 360

tcaccganac tgnnaaatcc ttgntgnata ttcanaacat gggtaagtca c 411

<210> 3174
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A2

<400> 3174

gcccggtctg acaaacgggt ccancacgcg tccgntcttn attcacttag tggtagctca 60

tcggttgagt gggcagaagg tgcatttgtt gcacagaagc aaccacttac ttggtacaag 120

acgactttct ctgctccagc tggagattcg ccattggctg tagacatggg aagcatggga 180

aaaggtcaaa tatggataaa tgggcagagc ctgggacgtc actggcctgc atataaagca 240

gttggttctt gcagcgagtg ttcttatacc ggaacattca gagaggacaa gtgcttaaga 300

aactgtggag aggcttctca aagatggtac catgtcccaa ggtcgtggct aaaaccaagt 360

ggcaatctaa tggttgtccn tttaaggaat ggggaaggag aacccaaacg ggatcaacgt 420

tggtcaagaa gaanaattgg acaatttnan gtncaanata tcctaatgaa ttggnaatca 480

<210> 3175
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F4

<400> 3175

ntgatcacgg gccgaccacg cgtccaaana gactcggcgg gggctcggga aagattatct 60

tttctgttta acaagcctgc ccaccctgga aacggctcag ccgggaggta ngggtccaag 120

cggctgggaa gagccaccgc acgtcgcgtt gggtgtccgg tgcgcccccg ggcgggccct 180

ttgaaaaatc cgggagggac cgagtgccgc tcacgcccgg tcgtactcat aaccgcatca 240

ngtctccaag gtgaaacaac ctctggtcga tggaacaatg tangcaaggg aaagtcggca 300

aaatggatcc gtaacttcgg gaaaaggatt ggctctgaag ggctgggctc gggggtccca 360

agttccgaac ccgtcggctg tcaagcggac tgctcgaact gcttccgcng cgaaaacggg 420

tcgccgcntg ccggccgggg gacggactgg gaacgntctc t 461

<210> 3176
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C8

<400> 3176

tttctgattt cgagaaaaaa caaaaatccg caaactcgac gatgatcctg aagaaagtat 60

ggggatcggt gtggaaccga tcgaatagtg gcaaggattt ggtgaatcat cagagagcga 120

tcgatgttcc tcctctgtta ttgtcttctt catcgtctct tggtgcgttt gatcagctac 180

cgatggatat tctagtccag atactgatga tgatggagcc aaaagatgct gtgaaattgg 240

gcttaacgtg caaagcctgg aaatgcgtag ctagtggtaa tcgtctctgg atattttatc 300

tccagtgttc tcaagagcca tgggactcca ttttcttcgc tgaaactagt ttgcgttctg 360

gttatcctct ccgaatgatt ccaagtcaat caagganaat tgtccnttaa gcacaatt 418

<210> 3177
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D12

<400> 3177

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cctaccacag gaacaccaac tactgggaca ccaaccagtg ggaccccgac taccggaact 120

ccgaccaccg gaacccccac cactggaact ccaaccagtg ggactccaac tagtggcttc 180

ccaaataccg ggactccaaa cacagggact aacactggga tgccaaattc caacgggatg 240

ccaacttcat cgtcatcttc ggtgttcccg gggactactc ttggcccgac tgggagcggg 300

ggactaggcg atccaaatgc tggaganaag ctgtctgttc gaactaacac agtggtcttc 360

ttattaaccg gtgtagcagc aatgcttgtc atatgagggc ttanaantca cacgcggtta 420

tggttgtaat tgaattgctg aaaaattaaa tnttgccaa 459

<210> 3178
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D6

<400> 3178

ccanacatgc ggtcttatct aaaacacaaa ccaacaaaaa gaaaaaatgg gcttggtccg 60

atcatttgct ttggtcatag tcttccttag ttgtctcatc gccgtttatg gccaaggtac 120

gaggatcggg ttctactcga ctacgtgccc taatgccgag acaattgttc ggaccactgt 180

ggcatctcac tttggttcag atccaaaggt tgcacccggg ttactganaa tgcacaacca 240

tgattgcttt gtccaaggtt gtgatggttc ggtgctttta tcgggaccta actctgaaag 300

aaccgctggc gcaanacgtt aacctccaat ggtttttgag ggtccatttg acgaatgcca 360

aanaagggca agctccgaan ggcaaacaat gtccctnggt ggnttgtcct ccttggttgc 420

cngaaaaatc cttgggcctt aaaccgggct ccnttgaatt ccgggttttc ctcctccgta 480

<210> 3179
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D8

<400> 3179

cgctcaatcg ctacaaacat tcattgttca ccgatcgatt ctctctcttt cttcttcccc 60

attgctcctt ccttcgtacc cctctctctg tcttttgagg tttccgggtc gggttggtga 120

gaaaactcca gcggcttaac ggatcttcca ctggtagttt tctgttcctc acaaggaaat 180

cgaaaatttg ataaagcgaa agtganaaag gcgtgtgttt tctttgtaaa ggctccaact 240

tttttgatga ncagcttgtg cttgtngtga aagnttgtta ctttttgtgt nantggnant 300

tggggttttt ccttaangtt ctgaaggagg agnaaaggag aaanctttct tggaatttgg 360

atncaaattt gngctcanan ggngagtttc aagggttttg tttgtgattc cngga 415

<210> 3180
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D9

<400> 3180

cggtaccgat atgtgaattc gcgggtccga cccacgcgtc canccacgcg tccgcggacg 60

cgtggggctt gacgctgctt caaggctatt cttctnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnncttc tgtgtttgat ttctctgcat ctgcctcctc cgctaaaaac gccggccttc 240

cttcagctga cgacgttttc tctcagattt cagggccacc ggagtttcta aacaaccgca 300

cagaagcaga taatgaagct tcagctagag atgcagaaca tgcaaatcgt attagtcgca 360

aaaagaagaa agttaaacca aaaggtgttg tcatggaagc aaaacctcaa ctagtaggaa 420

tccatgagag agtaagaaac gatattgatg caccccccatc ttcaa 465

<210> 3181
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E1

<400> 3181

gaacacgcgt ccgcccacgc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnncatg tgggatgtgg ctatagcagt cttcactgca tcttcctcct 120

cactttcttc tctctctttc tcttaatttc ttttttttcca gatttttctc tgattcccat 180

cttttccctc gaatgatcgg ttgagagaag atggtttcag agacttggtt tcgtaatctg 240

tggaggtttc aanagaaaca tgatgggtca taangataag gngggttcna ggagtaataa 300

ccgtttggag ggttgccaag tttgggtggt cccaaagctt ggttcaaatt tgtgggcaag 360

tcaatttaag gtggantaaa gaaatggttt ggcnaagggg cttaangggg aacnaagaat 420

tttcnacaat ttccaaacng ggggtantna ancnnaaagt tttanggttt tccca 475

<210> 3182
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-E10

<400> 3182

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ggggtaatgt aggaggagga aaagatgcta attttggaaa tgtgggtgta agaaaggaaa 120

cagaacggtg tttgagtcag actgaggttg agaaggaggc gtggaagctg cttcgtggtg 180

ccgtggtgaa ctactgtggg ttccctgtgg ggactgtagc ggctaatgat ccaggggata 240

cgcagacttt gaactatgat caagtgttta ttcgtgattt tgttccttcg gcgtatgcgt 300

ttatgcttga tggagaaggg gagattgtta gaaactttct ccttcataca ttgcaattgc 360

agaactggga gaaaacagtg gactgtcaca accctggccc gggggctaat gccaaccaat 420

tttaa 425

<210> 3183
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E11

<400> 3183

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ctcgactccg tgatacactt ccagctgagc cacagaggag gaatggaagg cttcagctaa 120

tgctttacaa gcttctatgg gacactattg tgaaagaagg gtttccaacg ggacctttt 180

tcgactactt ttctttgaat cgcaattatg tcttatccca agatgtcaga gatcacattg 240

ctaatgcagg tatcaaagct cagacacttg aagagatagt taggtactat gaaaacactt 300

ttcagatgct tccgatagca ataatcaac tattactaaa gtacgagttt cagaaggacc 360

aatctataat agctgaaatt agattcaacc atgatcatga atgggtgatg agcaaatata 420

gagaagtcat tgagttctgg agaaatgaac gaaaanctgg gtacactccc 470

<210> 3184
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E2

<400> 3184

gaatataact accatattct caatcacaac actcgccact gtttcgaata gatggcttcn 60

atttcaaccc cttttccgat ttctctccac ccaaaaaccg tacgatcaaa gccgttgana 120

ttccgagttt tgacccgtcc gatcaaagct tccgggtcag aaactcctga tctaaccgta 180

gcgacacgaa ccggatccaa agatctcccg atccgaaaca taccgggaaa ctacggttta 240

ccaatcgnag gaccaatcaa agaccgttgg gattactttt acgaccaacg agctgaagag 300

ttcttcaaan cacgaatccg taaatacaac tccacggtgt acagagtcaa catgccancg 360

ggagctttta tcgccggaga atccacaagt cgtggcttta ctccgacggt aaaagcttcc 420

cggnttaatc gatgtcgata 440

<210> 3185
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E6

<400> 3185

agctttgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn tggtacttag atgcggttct tgtgccaagt gctttactta 120

tgatgtttgg ttaccacatc tatttgtggt ataaggttcg aaccgatcct ttctgcacca 180

ttgttggtac aaattcccgc gcccgtcgat cttgggtagc agccatcatg aaggacaacg 240

agaagaagaa catcttagcg gtacaaacac tacgaaacac gataatggga gggacgttaa 300

tggcaaccac ttgcatcctc ctctgcgcan gtctcgctgc cgtttttaac cagtacttat 360

accatcaaga aancctttaa acgacnccgt atatggagct catggngact tcacngttgc 420

actcaatacg taac 434

<210> 3186
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E7

<400> 3186

naatcagatc tagctcaacc atggcgttgc tcgtcgagaa gacntcaagt ggccgtgaat 60

acaangtcaa agacatgtct caagccgatt tcggtcgtct cgaantcgag ctcgccgaag 120

ttgagatgcc tggactcatg gcttgtcgta ccgaattcgg accttctcag ccattcaaag 180

gcgcnagaat caccggatct cttcacatga ccatccaaac cgccgtactc atcgaaaccc 240

taactgctct cggtgctgaa gtcagatggt gttcctgcan catcttttcn actcaggaca 300

ngcngccgca gccatcgctc gtgactccgc cgctgttttc gcctgnaaan gnnagactct 360

tcatgagtac tggtngtgta ccgagcgtgc tcctagattg gggtcaagtg ttggtnctga 420

<210> 3187

<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F11

<400> 3187

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gtgcttcctg atggacccaa acctcgggaa gcaagtttgt tatgttcagt tcccacaaag 120

atttgatggt atcgataaga acgatagata tgctaatcgt aataccgtgt tctttgatat 180

taacttgaga ggtttagatg ggattcaagg acctgtatat gtcggaactg gatgtgtttt 240

caacagaaca gcattatacg gttatgaacc tccaataaaa gtaaaacaca agaagccaag 300

tcttttatct aagctctgtg gtggatcaag aaagaagaat tccaaagcta agaaagagtc 360

ggacaaaaag aaatcaggca ngcatactga ctcaactgtt cctgtattca acctcn 416

<210> 3188
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F12

<400> 3188

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tccataacac cattgctacg aaattgggga taaaagaatc tccaatcaag atcaacagcc 120

agactaagta tgcagcttta tctagaggag atggagaggt ttacttgagg tttactcgca 180

aagcaagacc cgaatcaata tggaatcacg ctgctggctc aatcattgtt tcagaagcag 240

gagggaaagt gactgatgca gcagggaatc cattggactt ttcgaaaggg aagtatcttg 300

attacaagag aggaatcgtc gttacgacgc agaaactgtt gccaaggctt ttaacnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aagctgcttc tccaaaactt 420

cactaac 427

<210> 3189
<211> 433
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-C6

<400> 3189

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cagtgaaaac agaaagcagc atttgagatt ccactgttaa tctttgaatt aaaaatgagt 120

gcagcagcta caatgcctat gccccgagaa gcgtctaatt acgatgagat ctctatgcaa 180

cagagcatgc tcttctctga tagtctcaag gatctgaaga atctgagaac acagttgtat 240

tcagcagctg agtatttcga actatcctac acaaacgatg aacaaaaaca gatagtcgtg 300

gagacactga aagattatgc aataaaggct ctggtgaata cagttgacca tttggggtct 360

gttacatata aagtaaatga ctttgtagat gaaaaatcat gaattaccag gaaccgaact 420

gcgaatttct tgc 433

<210> 3190
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F3

<400> 3190

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aggtccggct ccggttatga gcagtatcaa gcttcagaca tctccacatc anacaagaca 120

cattcttgct gaaactccaa cttcaagtcc cacgaacaaa cccaacaaca gcactacatc 180

aaaagctcca aagggagctc caaaaccagg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnncggcat ggatcttagg gtttgtcgtt ggagccatag gaggaacaat 300

ctctgggttt gtcttctcgg tgttgttcaa attgattatt caagcaataa gaggatcaga 360

aaaaccacca agtccttcca tattcagccc attgattaaa gaaagctgaa agatttacct 420

tccttgggag aatgaag 437

<210> 3191
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A2

<400> 3191

aaaaatcnan aatgacttcn cctactgcga ctaagtatga tgtctttctg gagtttcaga 60

gggagtcgac actccgtcgc aacttcatca gttttctcta canagaattc gttcgaagga 120

aaattcgaac tttcaaagac gacaaggagc ttgagaatgg ccggaggatt tctccggagc 180

tcaaacgcgc catcgaggag tcgaaattcg ccgtcgttgt tgtctctgta aactacgctg 240

cgtctccttg gtgtctcgat gagcttgtga agattatgga tttcgaaaac aagggttcca 300

tcactgtgat gcctatcttc tacggtgtgg atccgtgtca tttgaggagg cagatcggag 360

atgtcgctga acagtttaag aagcacgang ctagagaaga agatcatgag aaaattgcnt 420

cgtggagacg aacattg 437

<210> 3192
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A5

<400> 3192

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cggaaaaaaa cttctctctg agatcagatc tcttacgatt ctcagctcaa tcttatcttt 120

tcctttgttg tgctgctttt cactctcttc tgcgcgacga atttggcctt gttttttgtt 180

tgtttgtcgt atccgacgcg gaggtattga gaaaccgtgg cttaagacgg aggaagaaga 240

tggaagctaa cgggattgag aacttgacga atccgaatca ggaaagagag tttataagga 300

gacatcataa gcatgagctt gtggataatc agtgtagctc ctacgcttgg ttaaacataa 360

caacgctccc ggtcaaaatg gtggtggcca cttgtgaaga aagatttgnt nagccacaag 420

aagtataanc cgtttatcag t 441

<210> 3193
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A7

<400> 3193

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aaaatggcga atggagctaa tagagtggat ctcgacggga aaccgataca accgttgaca 120

atatgcatga tcggcgccgg aggtttcatc ggttcacatc tctgtgaaaa gctcttgacc 180

gagacgccac ataaggtgct tgcgctcgat gtttacaacg ataagatcaa acacttgctt 240

gagcctgata ccgttgaatg gagtggtcgg atccagtttc atcgtatcaa tattaagcat 300

gattcgagac ttgaaggtct tgttaagatg gcggatctga ttataaatct tgctgcgatc 360

tgtactccag ctgattacaa tacacgtcct cttgatacta tctacagcaa tttcattgat 420

gcgcctccag ttgtgaaata cggtctgaga acacaa 456

<210> 3194
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A8

<400> 3194

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ttcttcttct tatcattcac atcgccgtgt tgttgtcact ggtctaggca tggtgactcc 120

acttggtaga ggcgttgaaa caacgtggag gcgtttaatt gatggagaat gtgggattag 180

aggattgact cttgatgatc tcaagatgaa gtcttttgat gaagagacaa agttatatac 240

ttttgatcag ctttcttcta aagttgctgc ttttgtgcct tatggattaa accctggtga 300

atttgatgaa acccttggc taaactccaa nggaattgcc aaatttaanc ggataatgcg 360

gtanttgctg ccgatnaanc tttgnaanat gcanagtggt tacaaactga agaa 414

<210> 3195
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-A9

<400> 3195

gnccacaaaa tcatctcttt tgcttcgctg tttctctcat tattccatct ctcttatcgc 60

cgctacaaac gtttcttctt caacctcgtt cagagattat cctccttct tttctcatct 120

tacaaggaag ttgggcagtt aaagctgctg ggatcaccag ttttgtcaaa agtggagtgt 180

gaagaatctt ttatgtctga acaggcttct ctctttcaat catctatccg gcttttagga 240

gagtactgtc ctatatctag gaaaaagtcc actcataaag ttggtggttt gcgttttgag 300

gaggacatca cgagctgtat tggatttcag tttatgcaac tgagtgatta tcactgcctc 360

ttctgacatc ccttgtttgt ttacgtttgt tgaatcaaga tggctttgca aaaca 415

<210> 3196
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B10

<400> 3196

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gtgaaggcac tgcaaggcgc ggctcanaat ctaccggcgg atgtcaacca attgatcgat 120

cagttagagc gtcactgttt ggctcccgat ggatctcttg ttaccaaatc tgtctactcc 180

gatctccaac tcgcgagaga ggagatgtct cgggagagac ttcggtattt ggaagctatg 240

gctatttatt gtgaagctgt agctatggtt gaagaatatc agcaagctat ttcagtagct 300

aaccatgggg gaattcgtga tgttcaaggt ctataccctc aacttggctt gaagaattct 360

cctcangttt atgagactct anagcatang ttggtggttt ccgaaggggg tcaaaaactg 420

aa 422

<210> 3197
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B2

<400> 3197

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cctaagcctg gtggtggtga attcggaaag ttctatagct tacctgctct taacgatcca 120

cgagttgata aacttcctta ctctattagg attctgcttg aatctgcgat tcgtaattgt 180

gataactttc aagttactaa ggaagatgtt gagaagatta ttgactggga aaagacatct 240

cctaaacaag tagagattcc ttttaaacca gctcgtgttc ttcttcagga ctttacggga 300

gtcccagctg ttgttgacct tgcttgtatg cgtgatgcga tgaataagct gggaagtgat 360

tccaacaaaa tcaatccctt ggttcccggt ggatcttgtg attgatcact cggttcaagt 420

agatgtagct cgatnagaga atgcagtgca agcaaacatg gagcttgaat 470

<210> 3198
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B3

<400> 3198

gaanagtttc atcaaactct tcatcagtgc ttcttatttt cttcaaagct tcaaatttct 60

ttttttcctt cttgcaatgg caaaatcgaa gaaaatttct acaggtcaaa tatttggttg 120

tgagagtctc cttgggtgca ttttccagag ctggagccct cgccgtcgaa aaccctcttt 180

accggaaaag gatcatcggg caaaagataa cttgtcttcc aagtcatcaa caaccgttac 240

aaaccctaaa atcctcccaa gaaaatccac cgatacttct tctcaaccaa agaaatctga 300

ctcccagaaa ccccaacaaa agccaaaacc aagatgagaa tcaccgcgaa aatcatcggg 360

atccgccaag aaaatcatct gattccgcaa agaaaatcga ttcgtcaggc tcatcaagaa 420

cagagagcaa ngagatt 437

<210> 3199
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B6

<400> 3199

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ggggagttgg aaaatattcg aggtctcaga tgtaccacaa gagaggtttg tgggctatca 120

aggccaagaa cggtggcgtt ttccctcgtc acgatgctca gccaaaggtc gacgctccgg 180

ttgagaagcc tgccaagttt tatccggcgg aagacgtcaa gaagccgctt gttaacagac 240

gcaagcctaa gcctaccaag ctaaaagcca gcatcactcc aggaactgtg ttgatcattc 300

ttgctggtag attcaanggg taagaaaatt gtccttcctc aagcaacttt ccttctggtt 360

tgcctccttg ttacaaggac caattcaaga attaatgggt gtttcaattg anaacttgtt 420

aaccaaancc taatgtnaat tggaacct 448

<210> 3200
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B7

<400> 3200

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tcagtggttc aaattggaat ctttgttagg ctaacttttt gggagttttc ttgggatgtg 120

atggaaccaa taacgttttt cactacagct actgggatta ttgtgggtta tgcttatttc 180

ttgatgactt ctagagatcc aacgtatcaa gatttcatga aaaggttgtt tctttccagg 240

cagaggaagt tgcttaagag tcataagttt gatgctgaga ggtttaaaga actggagaac 300

aagtggaaga taacgtcttg ctcttcttct tcgtgccacg ctaatgcatc gattcggaat 360

cgtgttggtg ttgatcttga tttggaggat tccttgcaga gtcatcacag agattgattg 420

gntcta 426

<210> 3201
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C1

<400> 3201

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cggtcaatta cgcattctct gatctgattt gtgagatctc tcgtcggatc accgtttttt 120

acatcgtcgc cgacaacact taggagtaat tggatccaag canaaatgtc gataaacatg 180

aaaacattta ctcaagctct agctagaacg gctgctgtga ttgagaagac ggttcatacc 240

acagtacagg aagttacggg accaaangct cttcaggatt acgagctact tgatcagatn 300

ggttccgctg gtcctggtcn agcttggaag ctatacgcag ctaangcgcg ttgattccac 360

gaaggcacag caataaccga aggtctgtgt aatggatgcc tgataagcgt gctttgtcgg 420

aaggcncctg taa 433

<210> 3202
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C10

<400> 3202

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cagcaatgac taaaaagaag aatcctaatg ttttcttgga tgtatcaatt ggtggggatc 120

ccgttcaacg gattgtcatt gagctttttg ctgatgttgt ccccaagaca gcggaaaact 180

tccgtgccct ctgcacaggt gaggcgggcg ttggaaagtc cactgggaag cctctacatt 240

tcaaaggatc atctttccat cgggttatca aaggattcat ggctcagggt ggtgattttt 300

ccaatgggaa tggcactggt ggggagagca tctatggtgg gaagtttcag atgagaactt 360

tagattggac catgatggaa ctggantcct tcaatggcaa attgtgggcc aaaa 414

<210> 3203
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C3

<400> 3203

gaaaagagga agagagaggg acaagagaat cataagaaga agacatagtc atgggagagg 60

tgaaagtaga cgacgatgcg attcttaaat ccttcctcgc cgaggtcgga gaagttgaga 120

gagataacga agtcggcagg attctctcat gcttcaagct gaatccgttt gagcatctta 180

acctctcttt cgattcttcc acggatgatg ttaaaaggna gtacagaaag atttctttga 240

tggttcatcc tgataaatgc aaacatccac aagcacaaga ggnnttcngg gcaatgggaa 300

aagcccnaca actggtggca aacgaacnag naagngaata aaatccttaa ccaaattcaa 360

ggctggcaaa ggaaganctt taganngaga ggnaaggaac nnnttaagga aagaaaacgg 420

ctnnaaaaat aaaatccctt ggtggna 447

<210> 3204
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C5

<400> 3204

tcagcgagaa ggagagctat tcatagaaaa agcggaagtg aaaaagctag cgtctttttt 60

aaagcaggcc tcagaggatg ctaagaaact tgtcgacnag gaaagagcgt ttgcacgtgc 120

tgagattgaa agtgcaagag cagctgtaca aagagttgaa gaagccctgc gagaacatga 180

acagatgtct cgtgcctctg ggaaacanga catggaagat ctaatgaagg aagttcaaga 240

agctangcgg attaaattgc tgcatcaacc aagcagggta atggatatgg aatatgagct 300

tcgagcacta agaaatcanc ttgcagagaa atcaaancat tttcttcaac tacaaannaa 360

gctcgcaatg tgcanaaaga ncgaggaant atcccttgta tatgaaatag atggcactga 420

agctctagga tc 432

<210> 3205
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-H9

<400> 3205

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caggaaatcg tccaacganc acaagagatc catgccattt cctctgatac atcttcagaa 120

cacgcagtna agattaccgg agtccgatat aaattcggtt aatctgntga gggagacaga 180

ttctctctcc agcgatgcta ttgctantga agatcccttt ancactgatt tggcctcaca 240

aagttttact agtgcncaga cagagagatt gaacgcnagg caagcgagcc atgaggacaa 300

caatctatct gtttttggtg cttctcctcc atcctctgtt gcttcaataa tgncgangaa 360

ccattanaga cnaacaatct cagngaangg agaatgctcc acagtacaca cntcaatc 418

<210> 3206
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D8

<400> 3206

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agctcttgaa gcagcccanc aagggattgt tcttctcaaa aactctgctc nctctcttcc 120

actctcnccc agacgccacc gcaccgtcac cgtgattggt ccaaactccg acgtcactga 180

gactatgatc ggcaactatg cagggaaagc atgcgcctat angtcgccgt tgcaagggat 240

ttcaagatac gcnaggacac ttcaccaanc tggctgtgcc ggcgtggctt gcaaagggaa 300

ccaaggattt ggtgcancgg atgcagcggc gcgtgaagcc gacgcgacng ttcttgtgat 360

gggantaaat cagtcgatan angcagagac acgatatcga accggggctt ctcttaccgg 420

gttatcaaca agatctaatg acccgtgt 448

<210> 3207
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E1

<400> 3207

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atctcagatc ccgatcccgt ctccttatct tccgccggcg acttcttcat ttttctcttc 120

tacctaccac ctcttaatca ttctctctcc ccccgcagat ctagcgaatc gaattcgaat 180

ccttaagtag tagtggaatc atggcgctaa gcatgcgaaa agcgatcgga gttgttaagg 240

atcagactag tatcggcata gcgaaggtag ctagcaacat ggctccagat ctggaagttg 300

cgatcgtgaa agctacaaag ccacgacgat gatnaatcta gtgacaaagt atatcccgcg 360

agattcttaa cttaacttca ctctccccgt gggctacgtt cacgcctggt gtcacctccg 420

gttcaacgcc gtcttaaaga angacgcgtg act 453

<210> 3208
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E10

<400> 3208

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tggattgatc gattaagcca cttagactag tcnctgcgaa agaatgagac tgagaagttg 120

gacatctcga tacttttgga aaccccgatt tgttgatgac tcttgaatct atgggacggt 180

gaatcccaaa gaatggttcc attttaagtt tgttttgtat tgttggtgga ggctggatga 240

ttttgagagc acttgtactt gagctttgtt ctcatatctt gaattacaca gtggaatana 300

aaagatgaca actttgtatt aagtaagatg atgaacacnt gtagctcttc ctgctagata 360

tttgattaat ggaattgcct gttttccccc ttttttgagt tgcaantgga nttcaggatt 420

gataatg 427

<210> 3209
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E11

<400> 3209

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ttctcttttc tccaagttta acgctttttt agctcaaagc tcacacacac gaccactcta 120

ttcctccttt aacctttgtg tttgtcaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnaaagttt cgattaagaa gatagtggtt taggtttacg gttttgtaat 300

tgatttatta tctgtaatgg gttgtgaggt ttcaaagtta tctgcacttt gttgtgtttc 360

agagtctgga agatcgaatc ctgatgttac anggcttaga tgangaangg agaaggtgaa 420

tcaa 424

<210> 3210
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E12

<400> 3210

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tgaaggctat tgaaaatggt gatttgttga agatcctcca aagtgaaatt cgtcacgaaa 120

tctcccatcc tcgtttccag ggcgttgaga ccggttctct aggagatttc aaattggatt 180

gggattcacc ggaaagccaa gatattgttc tgaagagaca gtttgattca ggcgagaagg 240

ttgtggtctc tgctttattg caaccagaac ctatagaact agaagatgat ttagtgtttc 300

ctagggaagc tcatgccaaa gtttgtatca aaaagcctgg tctcagctct atcttgcagt 360

ttcattgccg ggtttacgaa tcaggatctg ggatcttctc anttcgacat cganaacgcc 420

tactttatcc c 431

<210> 3211
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E2

<400> 3211

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tctaagcttc ttcttcactg tnaaaacctc agatcgcaaa tatgcacgca ccggtactcg 120

ttctgagcga ttcgttgaag cgtgaatctg gaagtaaggt tcatcatggt aatatccaag 180

cttccaaggc tgttgctgat atcattcgta caacattggg tcctcgttct atgttgaaga 240

tgcttcttga tgctggtgga gggattgttg ttactaatga tgggaatgct attcttcgtg 300

agctagatgt cgctcatcct gcagctaagt caatgattga gttgagccgt acgcaagatg 360

aagaanttgg tgatgggaca acgtctgtta ttgttccaac tgggtgaaat gctcacgttg 420

cagaancttt cntgagaaga attaca 446

<210> 3212
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E3

<400> 3212

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tccatgatct ctaccttcac tccatgtctc aacttcatca ccggaagcag cggcggttcc 120

gtcactccca ccgccggctg ctgcgactcc ttgaagacgt tgaccaacac tggcatgggc 180

tgtgcttgcc tcatcctcac tgctaacgtc ccgctgccta ctggcttcat caatcggact 240

ctggcgcttg ctctacctcg agcctgcaaa atgggcggtg tacctattca atgtcaagct 300

gcggggactc ctctaccaac tccaagtcag gttccatttt tgattgctcc accacctcaa 360

gtgtctgctt tagcccggga acctcaangg cggcngggac aacaccaaca caggcactgc 420

ancggatact cccgcggatg g 441

<210> 3213
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E6

<400> 3213

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aggctgctcc tactcccatc gataccaagg cctctaccaa acgccgaacc ggctccatcc 120

cctgcggcaa gcgtaccgat tttggctact ccaaagactt ccacgatcac tacaccatcg 180

gcaagttgct cggccatggt caattcggct acacctacgt cgccatccac agacccaatg 240

gagatcgcgt cgccgtcaaa agactcgata agtctaagat ggttcttcct attgctgttg 300

aggatgtcaa gcgtgaggtt cagattctta ttgctctctc tggccacgag aatgttgttc 360

agtttcacaa tgcctttgan gatgacgatt acgtctatat tgttatggag ttgtgcgaag 420

gaggcgaatt gctgggatag gatattatcc 450

<210> 3214
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E7

<400> 3214

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natggatgct gctatcttta cttccgtana cgtttgcaat ataccaaaga cgaagaangc 120

tttcttcaac ccgaatccgc ctgctctatc ttcgtcttct tgttggctct gcaattcgca 180

ngccaagcaa atcatanaac tgagaatcag ggaaggctcg aatcaggggc ttcttcgtgt 240

acatgctctg tttaacaacg aggaggcatc angtgaaagt gaagatanga atgggtttgg 300

tttgctaccg gcggatattt tctctttgcc tcaggagaag tttggaagta atgtaagtgg 360

tgaaaaggat agtgnaaana taattgatgt ngagacatct c 401

<210> 3215
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E8

<400> 3215

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nnnnnnnnnn nngactcatt tccctcatta gatcttcttc tccactaaac ccataattga 120

aagaagctct ttttttgctt acattgaagt taaaaaatca tcacttgttt tgtttttgaa 180

gaaacacaca taaagtttgt ctttttactt ctcaaatttg gttgttttca ctcaatttca 240

atcttgcttt ctgattcaga ttctgggttt tcttcagaat tcccagagaa gttgttggaa 300

ttgaattttt cactttttg ttcataaaag ttctagtcnt tttagatgaa catggacaag 360

gaaacagagc aaaccctaaa ttacttacct ttgggtcaga gcgatccttt ggcaatggca 420

atgaangaac aattggagat tc 442

<210> 3216
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E9

<400> 3216

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caacatctgg tcttgatgca agagctgctg ccattgttat gcgtactgtt aggaatactg 120

ttgatacagg aagaactgtt gtttgtacaa ttcaccaacc tagcatcgac attttcgaat 180

ccttcgatga gttgctgttg atgaaacgag gaggacaagt tatatatgct ggaacactag 240

gacatcactc acaaaaactc gttgaatact ttgaggctat tgaaggggtt ccaaagatca 300

aggacggata caatcctgcg acgtggatgc ttgacgtcac tactccttca atggagtcac 360

aaatgaacgt ggactttgct caaatattcg ttaactcctc tgttaatccg agaaatcagg 420

aactcatc 428

<210> 3217
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F3

<400> 3217

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taccgtgttc ngtgtttttt gatgatttat gtgaacaaga ntcaagcaga gacancctac 120

gattatgaag tacgttttgg tgacaggagg agtggtgagt ggtcctggca aacgtgtcac 180

ngctagtagc attggacttc tccttcaagc atgtggtctt cgtgtcactt ccattncaat 240

tgatccttat cttaacactg atgcnggnac aatgtctccg tttgagcatg gntaagtatt 300

tgtcntggat gaangtggag aagtggattt gnncctngga aactaatgaa cgatttttta 360

gacagtacat ttgacccgtn acancaanat aactaccggg aaagatatac cagtcaagtt 420

attgacaaag gatnggaagg gggactactc ggaac 455

<210> 3218
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F7

<400> 3218

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gtctcactct ctccaaaaac agaggaagga gaacaaacca agaactcaag ctcccctgct 120

cttctcatct ttcttcttcg ttttctattt tctttcttct ttattctttg attcttttga 180

aatgaatcat ctttacaaaa acccatttcg catttatgaa attagtttcc atttctgcgc 240

gagtctactc ttgtgtttct tactcttctc tgctcaagct gttgcaggtg gtggaggtgg 300

tggtcactct tgggatggaa tcgtggtgac tcaggcgaac tatcangcac tccaatgcta 360

tcaancacga nctcattgac ttcaccggag ttctcaaaaa gctgggaaca actctgcctc 420

ntctcaagtt tgctcaggct gggctggaat 450

<210> 3219
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F8

<400> 3219

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ctcccactgg agaagtgctt ttgcgagagc agatgtggtt gtctttccac agtttaccct 180

gccgatgttg catagcgttc ttgatgatgg gaacttcgtt gtgattccag aatctgtagt 240

tgatgtttgg gctgcggaaa gctacagtga aacccataca aaacaaaatc taagggaaat 300

taacgaattt ggtgaggatg acgtgatcat cttggtgctt gggagctcct tcttttatga 360

tgagtttcnt gggataatgc cgtggcaatg cacatgttgg ggaccacttt taacacgata 420

tgggangaga aaagattcaa g 441

<210> 3220
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D7

<400> 3220

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ggggaccacn agatgcttcc gacacttccn ccaccagcgt cgcggcggcg aatctcctcc 120

caaacgtccc cttcgcttcc ttctcacgat ccgaaaaact cggacgcgtt gctgattgga 180

ctcgagctct ctcaaatcca tcagctcgtc ctcacaccgg atccaaatca gatccatcag 240

cgatcttcga tttctcagct tttgcagtag atgaaggatt tggtctaaca aactcangtg 300

gaaacgcnga ctaagacgcc gctttccgat tantcgacgg aaaaacaccg gccgcgtcct 360

aaattccgga ctaaatggga naatcaatca atgnncataa ccgaanatca gcttcctcaa 420

cgttnttaat gaa 433

<210> 3221
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C1

<400> 3221

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acaaaaacaa cacgtagttt gcgttcctta tccggctcaa ggccacatca acccaatgat 120

gaaagtggct aaactccttt acgccaaagg cttccatatt accttcgtca acaccgtcta 180

caaccacaac cgtctcctcc ggtcccgtgg gcctaacgcc gttgacgggc ttccttcttt 240

ccggtttgag tccatccctg acggtctacc cgagactgac gtggacgtca ctcaggacat 300

ccctactctt tgcgagtcca caatgaagca ctgtctcgct ccattcaagg agcntctccg 360

gcaaattaaa cgcaagggga tgatgttcct ccctggngan ctgtaaccgt atccgacngg 420

ttgtaagaac ctcacacttg atgccgccgg aggaa 455

<210> 3222
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C10

<400> 3222

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ttcgcggtgg gctcgattcg tgattcctca aagttcatca tccctaaggc actgtcactt 120

aatggcatcg gaatcgaaaa gctacgctag gagagatcgt cttcttgaga ttgaggccac 180

tgttcgaaag tggtgggaag acgaggatgt attcagagcc gaatcttgtg agaatcttcc 240

aaaaccagga gaaaagtttt tctcaacctt ccctttcccg tatatgaatg gttatctaca 300

cattgggcat gccttttcat tgtccaaggt tgattttgct tctgcttacc ataggctaag 360

angagctaat gtgcttctcc aatttgggtt tcaattgtac tggtatgcca attaagggct 420

tctgcggata accttcgtcg tgagattgaa cagtttgggt aacctcctgt gttactgctg 480

aa 482

<210> 3223
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-C11

<400> 3223

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ctatgcaggc aacggcttta tcatctgggt tcaatcctct aacgaaacgt aaagatcaca 120

gatttcccag gtcatgctct cagagaaatt ctctgtcttt gattcaatgc gatataaaag 180

agagatcttt cggagagtct atgacgatca cgaatcgtgg attgagtttt aagacgaatg 240

tgtttgagca agctcgttct gtgactggag actgttctta tgatgaaact tcagctaaag 300

cacgttctca tgttgttgca gaagataaga ttggtgtctg ctttgaatta aggtggcctg 360

aaacccttaa cgatgttcaa ccttcctggt aaaacctctt tgctgatccg gatataaaa 419

<210> 3224
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C12

<400> 3224

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ttaaaagtgc tacatcatat gcattaaaca gacaactaag catggatgat cttacaaagc 120

ctgtggaaga agagaatatc aagatcacta tggaggattt tctccacgct atctatgaag 180

ttcaacctgc atttggagcc tccacagatg acctagagcg ctgcagactc aatgggatgg 240

tagattgtgg tcatcggcat aatcacattt acaaaagagc tatgcttcta gtcgagcaag 300

ttaaagttag tactagaagt cctctagtca cttgccttct ggaggggccc agtggaagtg 360

ggaaaactgc tttagcagca acaattgggt atccgatagt gacttcccaa tatgttaaag 420

atagttctgc ggnaactatg attggtcttt ctgagagcac aaaatgtgct cac 473

<210> 3225
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C4

<400> 3225

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ttgtatctac ttcacttgct gtagagatat ggtatcaaga tcttattcaa acctcttgga 120

tcttgcttct ggtaacttcc attcgttttc tcgagaaaag aanaggtttc caagagtagc 180

aactgtcact ggtgtcttat ctgagctaga tgatgataac aacagcaaca gtgtctgctc 240

tgatgctcct tcttccgtca cacaagatcg aatcatcatc gttggaaacc agcttcctat 300

taaatcacat cggaactctg ctggtaaatt gagttttagt tgggacaatg actcgcttcn 360

cttgcagctt aaaagatggt atgcgtgaag atatgggaag tttgtctaca ttgggttgcc 420

ttaanggaac agattgatac agttgagcaa gat 453

<210> 3226
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C7

<400> 3226

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ttanaccaat cacttaggga actcatctta cgttgtggcg acttttgtcn ngccacctac 120

gatgccttcg tcaacganca aaactccaag tactgtggan ccagccgcta cggcanatct 180

tctttcttcg acanggtcat gctcnaaaac gcttccgact acnatgttgt aaacttcctc 240

tacgccacan ctcgtgtttc tctccccgaa ggtttgcttc tccaatcaca atcancnaga 300

ttcctgggac cgtgagtcta actggtttgg ctacattgct gtcncgtctg aatgaanngt 360

ctaaagcttt aggacgccgt gagatctata tagctttgan aagaacgagc aggaactaag 420

agttggtnaa atgttttggg gtgctangcc 450

<210> 3227
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C8

<400> 3227

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gcctgagagt gtaacaaagg actgatgatg aagattattg cggcgtttct cttcctcttg 120

gtcacgactt ttgtttcccg ttgtttgtct gcagacatag aatcggacaa gcaagcactg 180

cttgagtttg catctcntgt tcctcacagt cgcaaactca actggaactc cactattcca 240

atctgtgcct cttggactgg tatcacctgc nccaagaaca acgcccgtgt aaccgcactc 300

cgtttgcctg gatctggact ttatggacct ttaccanaga aaacatttga gaagcttgat 360

gccctcanga tcattagcct tagatccaac cacttcaagg gaacattcca tctgtcatcc 420

ttcacttcct ttaanccgat gac 443

<210> 3228
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D1

<400> 3228

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agaagaagaa gaagaaagat aaattaaaag ggtggttctg agttttaagg attattgttt 120

gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt atctgattgc 180

tctaatgaat atgagaagct cgttgttcgg atgaacatgc ccagggtcgt aattgacaat 240

ggagtttgcc ctaattcaac tgtcgtcaag attgatagtg caagaagccc aggaatattg 300

cttgaatctg tacaacttct cactgatatg aatctccgga tnaaaaaagc ttacatttcc 360

tctgatggaa aatggaatat gggatgtttt tcatgtgagc gatctaacgg agacaaatta 420

accgacgaga acctaatccc gttacattga a 451

<210> 3229
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D10

<400> 3229

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ttccgcccan ncgtccgatc aaatcaaatc accatggctt tagcttggtg cgttgtacgc 120

aggtcagcat ctaagtttgc ttccgtttat ggtggccgag tccgatctat ctccgccgtt 180

gcgaaccgcg cctctctagc tcgcaaccca tcttcaattc gtccattcgt ctctcgcgcc 240

ttaaattact cgacggctat tgatcgaatt agctccgagc aaacgcttat ccgagttatt 300

gactccgaaa tcaactctgc tttgcaatcc gataatatcg attcggatga agagatgact 360

ccaggaagct ttccttttag aattgaagac aaacctggaa atcagaatgt tacattgact 420

agagactaca atgggggaac atattaaagt tgttgtaagc atgcctaagt cctggttcag 480

a 481

<210> 3230
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D11

<400> 3230

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ttggacttgg cactctttta tctggtgctc ccattgtctc cgacgggatg cttcaggccg 120

catccgagtg cctagcagca tacatgagcg aagaagaagt gctagagggg attatatacc 180

ctccaatatc aangatacga gacataacan aaagaatanc agctgcggtg attaaggaag 240

cgattgagga ggatttggtt gaaggatata gagaaatgga cgctcgagag atccaaaagc 300

tggatgagga ngggctgatg gagtatgtgg aaaacaacat gtggaatcca gagtacccga 360

ctttggtcta caaggatgac taagtttggg ttcccaaaat gaataagtct actttctc 418

<210> 3231
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D12

<400> 3231

gaggttatga tatagtgatg accactagtc tatcatcaga tgttcctgtt ggatattttt 60

cgtgggcgga gtatgatatt atgtctccgg tacagccaaa aactgagaga gctattgcag 120

ctgcttttat ttctaattgt ggtgctcgga attttcgtct acaagcactt gaggcattga 180

tgaaaactaa cattaagatt gattcttatg gtggttgtca tcgaaaccgg gatgggaaag 240

ttgacaaggt tgaagctctt aagcgataca aattcagttt ggcttttgag aatactaacg 300

angaagatta tgtcaccgaa gaaattcctt caatncctta agttgcctgg gtcccgttcc 360

ccgttggtaa tttgggccct ccaaaattat tagaaagaan tttccgcctg gcttccggac 420

tcattccctt caaaatta 438

<210> 3232
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D2

<400> 3232

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tctctcttcc cgccggcgat ctcctccgct tctctccgat tttaagtcga tcgaatgggg 120

aaaatcaaga aagtgaatca aaggggtcat attgctacac cgtatccatc accatgttgt 180

aagaaagaat gggctggctc aacctgtcca gtatgcttgg agtctccaca caatgcggtt 240

cttctcctgt gttcgtctta tcacaaagga tgccgtcctt acatgtgtgc tacaagcagc 300

cgttttgcca actgccttga tcaatacagg aaatcctacg gtaacgaaaa ctcangacaa 360

cccgagcttt tgtgtccact gtgtagaagt caagtgaaan gctggactgt tgtgaaagat 420

gcccggatgc atttaactcc 440

<210> 3233
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D5

<400> 3233

gaataaaaan atganacant cttctttctc atggacagat ctcaagaaca ctgatgccaa 60

tggtgaccag aacttaggaa gcaaaccttа tagatcatga ggtggtaact gaatcatcat 120

catcagctgt gcctcaaacc gagaactata aaaggtggct tcgtgtctcc atatacgtaa 180

tctttgtcct cttttgccag ccactagcta caattctggg tagattgtac tatnaaaatg 240

gaggaaatag cacatatgtg gtaacacttc ttcaactcat tggcttccct gtacnggttc 300

tgttccgctt cttttctcga atcangcatc ccagatcaac agatacaant ttcaagtcag 360

tccccntcnt tcaacancct tgcatcggtt nacntgtgca ctggactgct antgtccgcn 420

tangcntatt tgtcgtaata gggttgccc 449

<210> 3234
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D6

<400> 3234

gccaaaacct tagctgatgt aaaggggga actctcattt cttatgaagg caaagtccag 60

cttctggaga ttgctcaggt tcctgatgaa catgtcaatg agttcaaatc aattgagaag 120

ttcaagatat tcaacacaaa caacctatgg gttaacttga aggccatcaa aaagcttgtg 180

gaagctgatg cacttaaaat ggagatcatt ccaaacccaa aggaagttga tggagtcaaa 240

gttcttcaac tggaaactgc agccggtgct gcgataaggt tctttgacaa cgctatcggt 300

gttaatgtac ctcgctcacg gttcttgcca gtgaaggcaa gttcagactt gctgctcgtc 360

cagtctgatc tctacacctt agttgatggc tttgtcactc gaaaacaaag ctagaactaa 420

nccctcgaaa cccgtcaatt gaantgggaa c 451

<210> 3235
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B7

<400> 3235

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ctgagaggga aagtgagaaa gcaaagtctg aagagatcat tggattttca agctcagcag 120

tctctattct aaaagatgct gagctttcag tcactgagat tgacgaaact tctctaatcc 180

acatggatgt tgatcaaagt ttcttgcaaa ttccacaatc tgttaaggct gcaatctttg 240

aaagttttgt gaggcagaac atatctgaag cggaagttga tatcaaccca tgtattaagc 300

agtttgtgtg gagtaattat gggtttccaa ccaaaagcag cacaggcttt gtatatgctg 360

atggctcact ancactattc aataaactgg taanttgttg tgctcaagaa ngtgggaacg 420

ctttgtttac ctgccnggta caaaatgg 448

<210> 3236
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H2

<400> 3236

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ttccgtcgag gaggaaaaag atatgaagat ggaggaaacc ggtgaaggag ccggcagcgg 120

aggaaaccgg tggccaagac cagagacttt agctctattg agaatacgtt cagagatgga 180

taaagctttt cgtgactcta ctctcaaagc tcccttatgg gaagaaattt ccaggaaaat 240

gatggagctt ggttacaaga gaagttcaaa gaaatgcaag gagaagttcg agaacgtgta 300

caagtaccac aaacgtacca aagaagtcgt accgggaaat ccgaanggca aaacttaccg 360

gtttttccaa agaatttaga ancntttcga gactctcaag ttcctaacaa ccctgaancc 420

tgaattccaa acccgcgaaa tccttctgc 449

<210> 3237
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H3

<400> 3237

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aaaactacca attccacggt atggctgatg aggtgttctc cttggtctct acccctgagt 180

tgcagatgaa ctctttgttc aaattcatcg cctctggtaa ctgcgagtac aacaacaccg 240

tctgctggtc tcaccctggt acctatttgg gtcaaatcgc catccagtat ggtaacgaga 300

agatcttgtt gcantctggt tctcactcgg anggtgccaa ccgttctggt caaacgacaa 360

aggcaantgg cccctaacgn ccaatgtnca aaaatnncaa tgcctccggc aaatcgaacc 420

ttgttcangt cccttggttg g 441

<210> 3238
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H4

<400> 3238

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aacgataata ctgaatctga gagtttaagt gttgttgagg aaccgaagaa cgataaagaa 120

ttgagtcttc gagctttgaa tcaaaatggt gatccattag ggcggagaga tttagggagg 180

aacgtagtga agtggattan tcaggcgatg aaagcgatgg cttcggattt tgcaactgcg 240

gaggttcagg gggagttttc ggagttgagg cagaacgtcg gatctggttt gacgtttgtg 300

attcaagctc aaccgtatct caatgctatt cccatgccat taaggttctg aaatcaattt 360

gtttgaaagg cttgtaccca ttaacccaac cntggtccat taatttccaa aagaaagttg 420

ccttgatgtt ccntcaaag 439

<210> 3239
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H5

<400> 3239

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ctctccttga ggctcttgac cagatcaacg agcccaagan gccgtcanac aagccccttc 120

gtctcccact tcaggatgtc tacaagattg gtggtattgg aacggtgcca ntgggacgtg 180

ttgagactgg tatgatcaan cctgntatgg ttgtgacctt tgctcccaca ggattgncca 240

ctgangtcaa gtctgtttan atgcaccacg antctcttct tnatgcactt ccangtgaca 300

acgttgggtt caatgttaan aatgttgctg tcaangatct taagacaagg tacntcgcat 360

ccaactccaa ggatgaccct gccaanggtg ctgctaactt caactcccaa gtcatcatca 420

tgaaccaacc tggtc 435

<210> 3240
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H6

<400> 3240

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aaagaaacaa catttcaata tacagattta cttcctttta cagattttcc taaaaaaccg 120

aaattgaaac aaacaaaacc aaaagacgtt acctttttc cattgattcc tcaattctct 180

aaacaaatga gttaatcttc catggctgcc atgttgatgc agccatggcc accgtttctt 240

cctcatctaa ccctagtttt cttaacccta atcctctttt tccctaatca atcctttct 300

caatccgatt ctcctcgaaa catcgaaaca tttttcccaa atgacacaat caccctcca 360

agttcaatct ccggttctat cgccgccgca aaaccatcat cttcgtcatc ggattcaaga 420

cagaggaaat atcctgaggg ctgtgctata acaagcaagc aagcacttta cttgtagca 479

<210> 3241
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H8

<400> 3241

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gaggaaccga agaacgataa agaattgagt cttcgagctt tgaatcaaaa tggtgatcca 180

ttagggcgga gagatttagg gaggaacgta gtgaagtgga ttaagtcagg cgatgaaagc 240

gatggcttcg gattttgcaa ctgcggaggt tcaggggggag ttttcggagt tgaggcanaa 300

cgtcggatct ggtttgacgt ttgtgattca agctcaaccg tatctcaatg ctaattncca 360

atgccattan ggttctgaaa gtcanttggt ttggaaggcn tgtactcant aancctacct 420

tgttcgattc atttccaaga agaagaagtt gcgttgatgt tcctcaaagn acct 474

<210> 3242
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A1

<400> 3242

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ctcctactct gcccatgata ttctcagagc gtctttcatt gagaagtttc tggtctccag 120

aatccttttt gtgcacttaa gattccttct tggtgtttgg agaaagttaa gtgaacatcc 180

cagtgcagtg acttcaacat gttctcaact tctcttatca catttgattc gtcacgaact 240

attagtttac ctcctggtcc tactattcta tccacttctg ccattactgg gacaaagant 300

gcanctttca aaacaaaaca aaacaagaga cntaatggtt gatgaaacgt tancaaaagg 360

ggtggataat aagagttacg cctaaaacct ggtcncaact ttgagaaaag atgatntgca 420

tgtaagaga 429

<210> 3243
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A10

<400> 3243

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tgtgtttgag aagcgggatt ggtgatcgga gctggaattt ggttggtaat cggaggtcag 180

agagaagtca acggatatgc cggaggaaga atcgatagat atcaaattca ggttgtacga 240

tggctccgat atcgggcctt ttcggtattc tgcggcttct actgttgact ttttgaagca 300

gagggtcgtc tctgattggc ccaaaaggca aaacaagttg ttncaaaagg ggataaacga 360

aattgaanct gataaacccc gggtaagaat cttggagaac aacaaagact gtttgggcat 420

tgttaagaca ccat 434

<210> 3244
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A12

<400> 3244

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tcaatgctgc ttaagatctg actttttccc ttcaatgtcg ctctgaaatc ccctaaattt 120

ttgggcccat caggtgaata aagcggaggt cagaagatgg gttctggttt aaatgacaca 180

ttatctcgga actacaatgg tttggagcta tgggagataa tagtgattgt tctctccgcg 240

atattcgttg tagttttagc tatatcgcta tggcttactt tcagaagaaa aacctctaga 300

tcttcttcta atctaatccc tgttagtcgc cagattcctc ctaagtgttc ctgaagagat 360

taaagagatt agagtcgacg aggtttcttc aagcaatggg tggggaatgg ataccctcta 420

ntagtga 427

<210> 3245
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A3

<400> 3245

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gaaatgctac tgtgacgact ctgtttgctt ctcttccttt tcttcctcgg caacaacaac 120

acccttcctc tcctcactcc ctatccgcca aaatctcttc ttcttccttt ttcttatttt 180

cctttcaata tctgatagct gcaaaacaga acccaccatg tctggtctgt ataattataa 240

taacttctca ccttctagag ccgcttctcc tcagattaga acccccttcct ccgatgttga 300

cagtcaatac atatctcaat tgttagcaag agcatcaaaa gcttggacct ttcatgcaaa 360

gtcttaccca tttgtagccg actcctaaat caagaaattt tccgggattc accgggaatg 420

atgcccaaac caaagggatt taacggattt tggataaggt tacgggaatc gaagtcccta 480

agtccaaatg ggcttcaaca aaatcctaat g 511

<210> 3246
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A9

<400> 3246

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ctcctgctaa ctcttgagct ccccaaaggc ggctacatcg gttttgtcac ctctactcgc 120

tcacttttct ccgtccaatt ttgcagcttt tgaagatcaa gaggtgaaca ttcggagtga 180

tgaatcggcc aaaggttcag cgtcgtgttg gaaagtatga ggttggaaag acgcttggac 240

aaggcacttt tgcgaaagtt cggtgtgctg ttaatactga gacaggagaa cgcgtggctc 300

tcaaaatact tgataaggag aaaggtctta agcataagat ggctgaacaa gataaggaga 360

gaaatttgta ctatgaagct gataaaccat ccaaaatgta atgcggctgt atgaagtttt 420

ggcna 425

<210> 3247
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B1

<400> 3247

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gatccgagtt tgggagattc aagctccctg aaaanagccc tttantctcg cttaccaact 120

ttgctccagc atggcaggat ntgcaccaga aggcacacag tttgatgcac gtcagtttga 180

ccagaaactc aatgaantac ttgagggaca ngatgagttc ttcacatcct atgatgangt 240

tcatganagc tttgatgcca tgggtcttca ngagaanctt ctcaggggta nttatgctta 300

tggttttgan aanccttccg ctagtcagca acagaggaat cgtccccttc tgtaaggggt 360

cctgatgtga atcaacaggc tcaagtctgg tactgggaan anaacanctt tctgccctgg 420

tgtcntgcaa caactgggac ctctcccgta tc 452

<210> 3248
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-B11

<400> 3248

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actttatctt cctcttaaaa caccatgttt tgttccaaag acagtaagag caaagacttt 180

gatgcttcaa cagagtcaag ttcatgttaa agtcaagaaa gccacagttt cacagcctca 240

gccgatcaga tactccacca agaacattgt ttttgaagat ccgatacaag ggatcatctg 300

ttacacagat gataatggag aggttatatg tgaaggatac gatgaaggtc ctcgttgtcc 360

cacacagagt ccaatggtag cttcttactc aagagaggtg gagaatcctg atcttctgca 420

aaga 424

<210> 3249
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B4

<400> 3249

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aacttctcta ctcagtgacc atgaaaacga cgaatccgcc gccaccataa ccgccgccgt 120

ctctgtccca atctcacctc tgttaactcc ggaagacaca caaaccgtag aaaagttcca 180

ttcaatcatc aaagaccact atcgcaaaaa ccctacaagc cccaacgacg ccatcttaan 240

ccctagctta actctccatg ctctctccct cgatttctcc caaattgaaa cttcccaagt 300

ctctccctcc gtcgtccgat gcgtgataga gaagtgcggc agtgtccgcc acggaatccc 360

tcttcaacaa tctctagctt tcttcaattg ggcaacttca cgaagacgga ttacgaacaa 420

caaatcacct catccgttac aacgaaatga ttga 454

<210> 3250
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H12

<400> 3250

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cttccttttg gttactgata atgaaataga gcgagtaaga ctaccaatta atgatggatt 120

agaggatgct atggacaatg ttgttctcag atttggacat gtggggaagc tcatgaatgg 180

catacgaaat gttgagtatc tggagttgtc tgctgatact ctcgaggtgc tttctctatg 240

ctgtgagtca atgccagtgt tcaaaaacct caaatcgtta gctattaaaa gtactgaagg 300

tcgaagatgg caagcaatgc cagttcttct aaggaattgt ccacatttag agtttctact 360

cattgaggga ctcttgcacc atgtcacaag ataaatgcgg ggatgcttgt gactgcttnc 420

<210> 3251
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D8

<400> 3251

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tagagcgcac ttgcgagcaa caacgaacga cgacccactg attcaatctc ctcctctctg 120

catattcctt ggcatctttt ctggtaccga agctgagtct ctggagagtt tctagatctt 180

cttcaattct gcaattcaga gcgaagattt attagtgatt gattattcac tctggagctc 240

gagttctgga tccgtgtggc tggagggaat gttctgttaa gctgattgtt taggcttgtt 300

ggatcagtat agaaattgtc agattgagaa agacaacatt gaagaacggt atagctgagt 360

gccctgcatg tcattcaaaa ntggtctcac ctgggtaaca aaactaattt caaggcttat 420

g 421

<210> 3252
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-E11

<400> 3252

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aatcaaatct atgcaagcta agactggagc tagaattcag gttattcctt tacatttgcc 120

ccctggagac ccaacgccag aacggacttt gcagattgat gggataaccg aacagattga 180

acatgctaaa caattagtta atgaaatcat cagtggcgag aaccgtatga gaaactcagc 240

aatgggtgga ggctatccac aacaaggtgg ttatcaagcc cgcccaccct caagctgggc 300

accacctggt ggtccgccag cacaacctgg ttatggtggt tacatgcaac caggagcata 360

tccaggtcca cctcagtatg gtcaatcacc ttacggaagt taccctcaac aaacttcagc 420

tggttactat gatcagtcct ctgtgccacc atcccaacaa agcgcgca 468

<210> 3253
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-E3

<400> 3253

tctacagaaa caaaaatctg attgtttttc ccactttgca tctgttttga ggatgccagc 60

tacggatttt caaggatcat ttggaaggtc gttgctaagt ttacggcgag accaagttga 120

ctcatcaaca gtcgtctccg gaagtagtag ccaccacgag ccaagcacca tggaggttga 180

gctagattcg tttcaaagac aagtcgctga gaaattcatc gatctcaacg cttcttcaaa 240

cgaccttctc tctctcgaat ggatcggaaa gcttcttgat tctttcctct gttgtcaaga 300

agagtttcga gctatcgtat tcaaccaccg atctcagatc tctaaatctc cgatggaccg 360

tttgatttca gattacttcg aacggagcat caaaagctct agatgtctgt aacgccatcc 420

gc 422

<210> 3254
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-E6

<400> 3254

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ccaaagactt atcctgtgtg tacaataacc agcacgccaa ctaagtttgt gcactgtatt 120

gtatgggcaa aagacctgct ctttgcaaag ttgtttggcg acaagaatca agataatgat 180

cttaatgtgc gatccaacaa ttctgcaagc tcatccaaag aaacagaaga tgtatttgaa 240

cgttcagaag atgaagatat tgagcagtat ggtangaaga tatatgatca tgtgtttggt 300

tctaacattg aagcggcttt gtccaatgaa gagacatgga aaaatcgcag acgaccaagg 360

cctatataca gtaaggatgt cttgcctgaa agtctgactc aacaaaatgg gancactc 418

<210> 3255
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F1

<400> 3255

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aaccgccgtg attggatctg gtgttctatc gcttgcgtgg gctataggtc aactcggttg 120

gatcncatgt cctacantga tgttgttgtt ctcttttgtc acttactact cttccangct 180

tcttancgan tgctacagaa ccggagatcc tgtctctggg aagagaaact atacttacat 240

ggacgctgtc nnatcaatcc tacgtggctt taggttcaaa atttgtgggc tgattcaagt 300

atttgaatct gtttggtatc acngtcgggt acacaatcgc aacatctaca agtatgatgg 360

cgatcaagan gtccaactgt ttccactaga gcggagggaa aaacccgtgt cacatgtcc 419

<210> 3256
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F12

<400> 3256

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nnnnnnnnnn nnnnnnnnnn nnnnnntcaa atctttcagt tttgatctct aaatttccag 120

aaaatgagca acgataagga cagtttcaat gtcagcgatc tcacttctgc tcttaaagat 180

gaggatcgag ctggtcttgt caacgctctt aagaacaagc tccagaatct agctggacaa 240

cattctgatg tgctcgagaa tctgactcct aaaattagaa ggcgtgttga ggttttgcgg 300

gagattcagg gcaaacatga tgaaatagag acaaaattcc gcgaggagag agctgctctt 360

gaagccaagt atcaaaagtt atatcaagcc tttgtataac aaagcgttat g 411

<210> 3257
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F2

<400> 3257

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gaattcgatg agtttaggtc gattgttcga tgtcctaatg ctcctttgaa ctattcttca 120

tctgttgatt tgcaattccg tggagatttg gtgaagaaga agatgaagaa acagagccgt 180

cgtgttcata attgggaaaa ggttggttat gaggcggtga ttgacggcga cacggtggtt 240

gtgtttgtta aaggattgac tcgaagacct cacaaggaat cagatccttc ttactataag 300

tgtcaatttg agattgagaa ttcggaggag aaagaggtga ctcaagctat tgctgctgcg 360

caagaagttg tgaggtgtgg tttgcctgag agtttgaagc taaatccaga gatgatgttt 420

cnagtgagtg ta 432

<210> 3258
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F7

<400> 3258

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ccgcggacgc gtgggtttca gacaattttg gttctttttc ttttgtattt atacattctt 120

aatcttctac aaaacaaaag aagaaagaca catttcgtta gtagaaatgg cgggaaacgg 180

aaacgaaagt accggtggag acttcagttt ctcggctgcg gcggcccgtg atgcgcttcc 240

gaggatcacg actgagaagg gcggcaaatc tccagggccg gcagacgtct gccaggatga 300

catcgcaccg cgggtcaact ttcagaccat cgacgagctt cacagtctcc agaagaaacg 360

atctgcccct accactcctc ttagagatgg cagcgccagc ggagtcagcg gaactagtgg 420

tccgactact cctgtctcca accagacatg cctcaatccg tcattgaacn 470

<210> 3259
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G11

<400> 3259

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aaatgctgat tgcaaaatca agatctgtga tttaggactt gctcgtgtct cctttactga 120

ttccccttct gctgtgtttt ggactgacta cgttgctaca agatggtacc gtgcgccaga 180

gctctgtggt tccttctatt ctaactacac gccggcgatt gacatgtgga gtgttgggtg 240

catatttgca nagatgctaa ctggaaaacc tttgtttcct ggcaaaaacg ttgtgcacca 300

gctagaactc gtgactgatc tgcttggaac tccgtcgccg ataactctat ccaggattcg 360

gaatgagaan gctagaaagt atttgggaaa catgaagcga aaggatctgt acctttcacc 420

anaaattccc antatcatct gtggcgcnga agttacttca 460

<210> 3260
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G2

<400> 3260

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gatcactgtt aaaccctcac aanatttcct caggactant antctgcgat cgatcgtcgt 120

tatgataagt ctctaaagaa gattgatgat tctggattac attatcatgg gaggagcttg 180

ttcaaggaag agagatcanc aagttganga tattttaaac agangtgtct ctgganaata 240

tancannagt tcaagttcga aatggttagc tacntcgctc tctaggtctg gctccgatgt 300

taaacggaag aatggagaat gcccgtcgct tatgganctc tgtgtccgca agatacanga 360

ggacattgat agatatacca agttctctga cctacctaga gatacagtca gcagattttg 420

anga 424

<210> 3261
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G3

<400> 3261

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ataagttgac atatatacta tatacaagta tattaattat acatatatgg ctgaccctaa 120

caatcctatc actgaaccta aagctataat ccaatcttct acttcatcgt cagttactat 180

tgtgccagtt cccacgtgcg gtgacagcct ctctgactct gccacgtgtg aaaacccttg 240

tccacttgan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnttaat ggccactgac accgacatct ctcgccggaa 360

aaagaatccg gtttatcggg gaattcgttg tcngagtgga aaatgggtgt ctgaaatccg 420

aga 423

<210> 3262
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-G8

<400> 3262

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tgttggtacg tcaccgattg tgcttgagtt gatgaggagg caaaatgttg aagatgtttg 120

taaagactct gtggatttgg atactaatgt tagtggaagc agggtgacta aacatagaag 180

gagagggagt tggttaaaga gtattaagaa tgttgctagt agtgtgactg ggtataaaga 240

gcgacggagc accgatgata gggattcacc gtctgagaga ggtggtcaga ggtttagctc 300

tgcaactgat gatagtcgag atatgtcttt tcatgaccct gagagagtta aggttaggca 360

gtatgggaag tcgtgtaaag agcttactgc acttttcaag aatcaagaaa atcaagccca 420

taaa 424

<210> 3263
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-H1

<400> 3263

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ctcgtctctc cagcctccga aactccaaaa ggtctccatt atctctcaaa tctcgatcaa 120

aacatcgcca tcattgtcaa aacattctac tacttcaaat caaactcaag atccaacgaa 180

gaatcctatg aagtcatcaa gaagtcactc tccgaggttc tcgttcacta ctatcctgcc 240

gcagggagac tcacgatcag tcctgaagga aagatcgctg tggattgcac cggagaagga 300

gttgtagtgg tggaagctga ggccaattgt gggatagaga agataaagaa ggctatatcg 360

gagattgatc aaccagagac tcttgaaaag ttggnttacg aagttcccgg tgctcggaat 420

aatct 425

<210> 3264
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D7

<400> 3264

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nnnnnnnacg caccaactgt tgcggctcaa agagatctcg atcgggatcc acaagacgga 120

gatagataga gagagagtga gagctaacgg aaatgggatc tcagctactt gagtgttgct 180

tccgtttcgt cttctactgt cactcccaca gctccaactg ttttccttga ttgtttttct 240

tttatctcgg cgttttactc ggaagcttac aacacactct ctcagggatt tgaaatcctc 300

acgtttcagc acattctttg tggttcccat ctattctcta gccagttcgg agttgcctga 360

agaaatcaaa tgggttcgag atacgcatct caccagctca acaatgggct tttgt 415

<210> 3265
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B7

<400> 3265

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nnnnnnnnna acaccaattc aagaaagaag gaagcttaag aagagtctat catcaatcaa 120

tggagtttca tcttgaacat cctctctcac attcttcact ccacaataac ttcaacgacg 180

acacagacta tgaaacttta ccacactctc tcttcctcgt cgagtttcaa cacatgcctt 240

cttctcatta cttccatagc ctcaagtcct ctgcttttct tctctctaat cgaaaccaag 300

ccatttcttc aatcactcag tattcaagaa aattcgacga cccatctctg acgtatcttg 360

ctgtgaatta tctagacagg ttcttgtcta gcgaagatat gccgcaagtc aaagncctgg 420

<210> 3266

<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B8

<400> 3266

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ttctgctgct atttgttttg tttctttctt acctgacatt ttggactcaa aagctgaagg 120

aaggaacaag tatctagaga tgttattatc agttgcagac aagtttaaga aagaccctta 180

cggctttgtg tgggtggctg ctgggaagca acctgatttg gagaagcgtg ttggtgttgg 240

aggatatggt tatccagcaa tggtagcctt aaacgcaaag aaaggagctt atgctccact 300

taaaagcggt tttgaggtta aacacctcaa agatttcgtt aaggaagctg ccaaaggang 360

aaaaaggaaa ttgcctatag accgaactaa gggagatagt gaagacagaa gcttgggatg 420

gt 422

<210> 3267
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-B9

<400> 3267

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tgaatttgcg aagtatggga gacgctagag acaacgaagc ctacgaggag gagctcttgg 120

actatgaaga agaagacgag aaggtcccag attctggaaa caaagttaac ggtgaagccg 180

tgaaaaaagg gtacgtggga atacacagtt ctggattcag agacttcctt ttaaaaccgg 240

agcttctcag agctattgtt gactctggat ttgaacatcc atctgaagtg caacatgaat 300

gtatccctca agctatcttg ggcatggatg tcatctgcca agcaaagtct ggtatgggga 360

agactgctgt gtttgtcctg tctactctac aacagattga accatctcct ggg 413

<210> 3268
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C11

<400> 3268

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gttttcacag gaacgtcgat gaaatctcgg tatcttgtgc acgtacacat gtcggactca 120

ggttttaccg tgaagtagaa aacataaagg ggcgttgttt ttgttgccgt caaggtctga 180

cttttagtaa aatcacatta agaagagacg tcggagggaa aaacctccag ctacagaacg 240

gtgtaatcgt gtaagtggga atacattgcc atgagaacgt ctttctcttc agacgctgta 300

tataaagcgc atgttgctgt gtttatgtcg attttttca agtaaaatta taagtcaaag 360

aattcaatta ttcactgtat tgtctanctt tccaagccga aaagtccaat a 411

<210> 3269
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C2

<400> 3269

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ttttttttac caaattaaca atttttgagt ctccgttgcc tctctcagtt gaagcgtctt 120

ccttctctct atcgaatgat ggaggccaaa ccaaaaagga ggattgttac agagaatgga 180

gatacaggtg aagatttagt tcttgcaaca ttgattggaa acggtgatga tgtaggtcct 240

ctcgttaggc atgctttcga aatggggagg cctgagcctc tcgttcatca gctcaaaaat 300

gtggcgagga agaaggaagc tgaaattgag gatctatgca agactcacta tgaagaattt 360

attgttgcag ttgatgagct tcgtggtgtg ttagttgacg ctgaanag 408

<210> 3270
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-C3

<400> 3270

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tgttcctctt cctctacggc ttttctccgg ttatctccga cggctccgat caccgttaca 120

aggtcggtga tgatgttcct ctttacgcta acaaagtcgg accgtttcat aatcccagtg 180

aaacatatcg atactttgat cttccgttct gttcatcagc tcctgttaag gagaagaagg 240

aggctctagg ggaagttctt aatggagatc gattagtcag tgcaccttac aaacttgagt 300

ttttgggtga gaagaactct gaagttgcat gtagaaagag gttgagtaga gaagacgttg 360

ctaagtttcg tgatgtgatt gcgaaagatt aatactttca gatgtattaa gatgacttgc 420

caatt 425

<210> 3271
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C5

<400> 3271

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atgtgaagaa tgcaaagagt gcatatctcc aaagagcaac tggtgcacaa aatatacaaa 120

cgattattta tcaaacacaa gacgatatgg aatgacttca agattcaagg actctcgtgg 180

agaagatatt caccatttca tctttgtctc aagttttact gaatataccg ttgtagatat 240

cgcacatctc gtcaaaatat ctcctgaaat tcccgttgat atagcggcct tgctcagctg 300

cagtgttgcc acaggacttg gagctgcgtg gaaagtggct gacgtanagg aaggttccac 360

tgtcgttatc tttggccttg gtgctgttgg actaacggtt gcanaaggag tcag 414

<210> 3272
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C6

<400> 3272

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agctgcgaga accatcgacg cggntaatct cacttgctta cattcactcg atgtatcaac 120

ggtcggagac ngtcgacgtt agagaacttt cgagagttta tggttacgca gtgaccatga 180

gaatgttgtt tggaangana catgtcacga tgagaaaaca tgttttcgga tgacgggaga 240

ctngganaag ccnacaaaca tcatcttgag gtgattttca ncactcgana ctgtttgcca 300

tgttttagtc ncgtgganta cgtggacnca aggttaggtg gttggtatat tgatggtgna 360

gaggagagag cgatagtgaa tgttaatctt gttcgnagtt acaacaatcc cataattacg 420

aag 423

<210> 3273
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C7

<400> 3273

gccctcgcaa ggccttataa ggaaaggctc gtcaccttat tggagaagcg gtccatgggc 60

gggaacaagg ttcactggga taccagaaat ggatgcatcg tatgtgaatc cattgggaat 120

ggtccaagat gaagtcaacg gcacaggagt tttcgctttt tgtgttctga gaaatttcaa 180

tttgtcatac atcaagctaa cgccagaagg atcattgagg attacacgga ataatggaac 240

cgactggatc aagcactttg agggtccgct aacctcgtgt gatctatatg gtagatgtgg 300

acctttttggc ttgtgtgtga gatccggtac tccaatgtgc caatgcttaa aagggttcga 360

accaaaatca gatgaagagt ggagaagtgg gaattggagt cntggatg 408

<210> 3274
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C8

<400> 3274

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atgtatccga tggattctga ttaccatcgc cgtggtctgg tggcaaacga tcgttcacca 180

gctcagtttg ttaggctgga taaaccgaga gccgtagacg atctctatat aggcaagaga 240

gaaaagatgc gtaggtggtt gtgctgtgct tgccacgttg aagaacctta ccattcttct 300

gaaaatgaac acctcagaag ccctaagcac cacaatgatt ttgggcatca cactagaaaa 360

ccacaggcgg ctgtgaagcc tgatgctttg aaggagcctc catctantga tg 412

<210> 3275
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D1

<400> 3275

tcttctgccg ctgatttcaa cactttcgct tcttcttata gcttcgccac cgccgccggt 60

aaaaagtccg attctttgcc ggtgtttgac gatcctggtc gagatggtga tgatcttctc 120

ttcaaagatg tgtttagtgg accaccacca ccaaagtacg gatcttcttc tggtgattca 180

cgttctccat ctgctcctgc ttttgactat gatgctatgt tcaaggaacc caaatccaaa 240

tcagngtcgt ctatgccggt ttatgacaag cctgtgtatg atgatgagga tgtgtttgag 300

tctattcctg agctcaaaat cccttccact tcttctcaat cagctaggtt tgagaatgtt 360

ttctcttcta tctcatcttc tcctacgaag cacangaaac aagaacaatt ctccctttca 420

a 421

<210> 3276
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D2

<400> 3276

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aaatggtgag actgttcaaa gtacgtcacg caacagctca catgttcaag atagaccatt 120

tctctttact cagaaagcat ggaatcgaaa aggtcgagtc ctctgttttc gatctcgctg 180

gtcacaaatg gaaactctct gtgcacccaa atggncatac aaatgctaag gggacacatt 240

atgtctccct ctacttaatg aatcaagctc cggtatatga tacgcttaca tatgagcttc 300

ttgccgtcag tcaacttgag ccaaaatggc acactcacgg aagagatgaa tacgaaacca 360

atgaagaact gggtagtgag gggtttcgtg agttcatatc tcctgttgat cttaanaaaa 420

atgg 424

<210> 3277
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D3

<400> 3277

gcccacgcgt ccgcccaatt ctcaccaaaa atcgcanaaa agatttcaac tttcgataaa 60

cccagatcga aaaatcagat ttttccagat caatcagaga gttagngatg gngtatanta 120

acaacaatca gcaatctttt tggcagttca gcgaccagct gagagttcag acaccgaatc 180

tagcgaatct gtctctcaac gactcgatct ggagcacaaa ctctgtcttc aaanagcgtc 240

gaaacttaga catagccgcc accaccgaca agaacaacaa ccagatcgac tattatcaga 300

agaagacaac ttccgacaac atcaattcca actggaactg gaagtcttct ggttcaaaca 360

acgacatggg tttaggattc ggacctgtgg gttcaaaatc caacgtcgat ttaaanccaa 420

tcg 423

<210> 3278
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D6

<400> 3278

gcaaacacat aaagttcttt ctcttactca tctccgccgc cggcagtaaa aatatcacat 60

cgttagggtt tcacggcgga gattcaagtt ctttgaccta ggaagctttc actatcaccg 120

gagactattt caatggcaac catggctagg tcgtttctgc aggcgatatc gaaggatgag 180

gcggtggctc ctccgcttag agttgttcag atcgaaggac tggctgtact aaagataatc 240

aaacactgca aggagttttc accgaccctt gtcactggac agcttcttgg acttgatgtt 300

ggtagcgtcc tcgaagttac caattgtttt cctttcccgg tcaggnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaagttaat 420

g 421

<210> 3279
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B4

<400> 3279

gagttaaatt ctataacata tatgggacca atctagaaac ccctcatagt gtttgctatg 60

ggaatgagaa gatgcccgtt aaagatctaa cgaatctaag atacttccag ccgacatata 120

tatgcgtgga tggtgatggc acagtcccga tggaatctgc catggcggat gggcttgaag 180

cagtagcaag agttggagtc cctggtgagc accgaggaat cctcaacgat caccgtgtct 240

tccgaatgct caaaaaatgg ctaaatgtag gcgaaccaga cccgttctac aacccagtaa 300

acgattatgt catccttccc accacatatg aatttgagaa attccatgag aatggactcg 360

aggttgcttc cgtgaaagaa tcgtgggaca tcatatcaga tgacaacaat atccgcacaa 420

ncggg 425

<210> 3280
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H10

<400> 3280

ctnttcattg caacgaantg ggctcttttc ttactcttaa ctgccattga accagggctt 60

gtcagttctt gacagagaac ctcttttcat tggcatatct gtcagctcca ctgaaaaggc 120

ttatanaaca gttgatattg ggccagatgc tgaaaacaag atagagattc cggaagtttt 180

ggggtgagaa gtctgatcta aggaggttta aagatggaag aatatctgaa agcacagttt 240

gggagactca gcagtggacc aaacatctta tcatgaaaca aattgttgaa tatatcctta 300

agcggcatct ttcactgacg tccgatgaca ttgtacaatt agtgggatca acttgattct 360

ctctaaaact atgggggcaa agacccanta tcnttatctg ggnaatttgg ttcaagccta 420

agaaagttt 429

<210> 3281
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H12

<400> 3281

attcggccgg ccaacncatt cnanttaatc cttgggatgg cttcatcctc taaggatcta 60

cggagttaca tgattcattt acngccttta ggggaccctg tattgcccga aatgctgttg 120

aagatactag aaccttatcg gaaagaaggt tgcttgctgg acgatgaaag agcaaaactt 180

tacgctgatg tggtcaagaa aggttatgct gcaagatttg cttttgcagc ttctgttttt 240

ggtgaaacct cagaagcact tttctggttg caacttcctc aagccattcg ccatctgatg 300

aacaagctaa cgagaaggtc tccgcagaaa atctcttccc ctactttaga ctcaggagct 360

gatgaagtag ctatgccgag taaaatacca tctactggat taaccgtcac ctgaaaccaa 420

gaaagataga ctcctaagtt gtgatnggtt ca 452

<210> 3282
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H2

<400> 3282

cgaaaaaaga gcactcccca atcccnattg gtncggtgat ggannagctt cgttgtcttc 60

cccattgcaa ttanggtttt caaaacgggt aatcgaattc ggtggtgctc ggctttgaaa 120

ttgaggatga gatcctttcc acttccttct acctgctgac aatgggcaac tgcggtacta 180

gagacgaggc tgccgtcttc actcctcaag ctcaagccca acagctccag aagaagcact 240

cccgatccgt ctcagatctg agcgatccat ccactcctcg cttccganac gactctcgca 300

ctcctatttc gtatgcccaa gtcatcccct ttacnttgtt tgagcttgag aacatcacca 360

agagctttcg cccaaattat atactccgga gaaaggtggt ttcggtaacg ntctacaagg 420

ggttacattg atgacaatcc 440

<210> 3283
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H4

<400> 3283

cccctaattg tctgccatgg cgatttctac tattctctga gtctgtgatc ttaaagattt 60

gatgagacag aaacccagaa actgaaanac aaaaacccaa ctcgtganat ttcgttccga 120

ccaaatctgt ctgatttgtg atctgaacaa agtacggtaa tggagttgat ggctaaacca 180

accttctcca tcgaagtctc tcaatacgga accaccgatc taccggcgac ggagaaagct 240

tcctcttcct cttcctcttt cgagacaaca ancgangaag gagtananga atctggtcta 300

agtcggatct ggtcaggaca aacggcggat tactcatcgg atagttcatc aatcggaact 360

ccgggagata gcnaataaag acgaagaagg aagccaaaac gaaaaccaat gacntt 416

<210> 3284
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H6

<400> 3284

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg agttaataga 120

tctggaatcg agaaatcaac aactgaagaa caacggcaaa gattcggttt ttagcagaac 180

actcaggaag ttttcactca aacatcatcg aaaaattcca gattccggga acagtcttgg 240

tcgtcgttca tgtgatgtag atcctaggtt gtctcttgac gcaagtcgaa gtctctttcg 300

acgagcctag agcttcatgg ggatggatgt ttgattggaa agacatatcc aaagctgata 360

cctttgtcct ctgtgactga agacgttaaa gcctcgccgg agaagataac cggtgagaag 420

gtanaggaa 429

<210> 3285
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H8

<400> 3285

acgctctctc aaaagtcgaa tatcccaaat tcgatccgtt ttccggcgat aatctccgat 60

ctagatccga tggcgaaaga accagttcgt gtgctcgtta ctggagctgc aggacaaatc 120

ggatatgctc ttgtacctat gattgcaagg ggtatcatgc ttggtgctga ccaacctgtt 180

atcctccaca tgttggatat tcctccaact gctgaagctt tgaacggtgt taagatggag 240

ttgatcgatg ctgctttccc tcttcttaaa ggtgttgttg ctacaaactg atgccgttga 300

gggatgtact ggantcaaag ttgccngtta agggttggtn ggtttcccga agggaaagaa 360

aggtatggan aaggaaggga ttttnacgtc caanaatgtt tccag 405

<210> 3286
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A1

<400> 3286

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caaagtttga ccgaccacct cttctccact tagcattcca agcacttgat aggttttcgt 120

ctcaagcagg ccgatttccg tttgctggtt cagaagaaga tgctcagaaa ctagtggaaa 180

ttgcagttga cattaatgag ggtttgggtg atgcaaggtt ggaagatgtc aactctaaac 240

tgttgcggca tttggccttt ggatccaggg ctgttctgaa tcctatggct gcaatgtttg 300

gtggcattgt tgggcangag gttgtcaagg catgctctgg gaaattccat cctatctttc 360

agttctttta ctttgattcg gtggagtcac tccccaaggg acctcctgaa gcatcaaagt 420

ttaaacac 428

<210> 3287
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A10

<400> 3287

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ctccggcgaa gatgcaagag atccaccaat tcctctcctc cgcactcacc cagcgtggcc 120

cttccgctct tccatacgcc gagaacacca agtcgctaat ccgtcaacac ctcctcaacc 180

taatctcttc ctacacttcc ctcgacccca aaacggcaac gtttacacac aacgatggcc 240

gatccgtgat tctcctccaa gccgacggta caatcccgat gcctttccaa ggcgtcagct 300

acaacatccc cgtcgtgatc tggctcctcg aatcttaccc tcagtatcct ccttgcgttt 360

acgtgaatcc tacacgcgac atgatcatca aacgacctca ctctaatgtc tctcccttcn 420

gg 422

<210> 3288
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A11

<400> 3288

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agggttttcg gagatctctg tgattcctct gaatttgtcg aatttttttgg aggaggcgtt 120

agaagtcggg cttcttaaaa atcagatctt ctgctcaggc tttaatcggc gacgtctggt 180

attgggatct gtgacacaaa aagctgcgtt ggagactatg gaagaagttc agcctccagt 240

gaccccgccc attgaaccaa atgggaaaag aagcgaagcc tctctcttgg acatatgcga 300

gaaagttctg tctcttgatg ggagcacttg cgatgaagct ttgaagttgt ttacaagaaa 360

ccaaacgaat tttgtcaagc aagcatgtct aacattggaa gtggnacgcc gggaa 415

<210> 3289
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A2

<400> 3289

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ttcctcttcc ttcccctcca aacaaccgcc aaaaaaacct acatcaacng cgtcaatcan 120

tccgataaac cggaatcatt cctcactcac cacgattggn acacatctca actcaattca 180

agaatcatct cttctctaca cttacacaac ctccttccaa ggnttctccg cttaactcga 240

ctccaacgaa gccgattctc tcctctcctc ctcaaactca atcctcgata tcttcgaaga 300

ttctctctac acacttnaca ctaaggcgtt actcctggag ttttctcggg tctcaaattc 360

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gnttta 426

<210> 3290
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A4

<400> 3290

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cgttaatctc ccaggtgttg ttgtggatct cccaactcta actgagaaag acaaagaaga 120

catcatgcaa tggggagtcc cgaatcaaat cgacatgatt gctctgtctt ttgtcaggaa 180

aggttcagac ttggttcaag tccggaaact tctaggaaag cacgccaaaa acattcttct 240

catgtctaag gtcgagaacc aagaaggtgt ggcaaatttt gatgacattt tggtcaattc 300

agacgctttc atgattgcta gaggagatct gggcatggaa atcccgattg agaagatctt 360

cttagctcag aaggtgatga tctacaaatg caacatccan ggaaaacctg tggtcacaac 420

aact 424

<210> 3291
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A6

<400> 3291

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tgcctcagat ctggctgcga tttcaaatct tccttagttt ctctcgcatc gctcggccgt 120

tgacggtccc gtcctttccg tggatctgat tctggccccg gattctctcg ccgcgatctg 180

aggtcaaaca tggcggctgc taacgcgccc atcattatga aggaggtcct aacgcttccg 240

agcgttggga tcggtcaaca gttcatcacc tttacaaatg ttactatgga gtctgataag 300

tacatatgtg tacgagagac ggcaccgcag aacagtgttg taattatcga tatgaatatg 360

ccgatgcaac ctttaaggag gctataactg ctgaatctgc tcctaagaan ccaaac 416

<210> 3292
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A8

<400> 3292

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ataatggcgt cgatccctcc gccggagctt gacaacgact cactggcgtc atcgccgaga 120

tcggagtacg atagtcagcc acgcgtacgg ttcatgtgta cttttggagg aaggatcttg 180

ccacgtccgc cggataatca gctctgttac gtcggcggcg ataatcgcat ggtcgctgtt 240

catcgtcaca ctactttcgc ctctctcctt agtaaacttg ctaaactctc cggtaaaagc 300

aacataagcg tgaagtacca gctaccaaac gaagatcttg acgcgttgat ttccgtatca 360

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ccca 424

<210> 3293
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B2

<400> 3293

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aaatggattg gtcatccaag atttgagcta attcgtcatg atgtgactga acctcttttc 120

gtcgaggttg atcaaatcta ccatttagca tgtcccgctt ctccaatttt ctacaaatac 180

aaccccgtta agacgataaa aacaaatgtg attggcacac ttaacatgtt aggactagct 240

aagcgagttg gagcaagaat tttacttact tccacatctg aagtgtatgg tgatcctttg 300

gttcaccctc aaaccgagag ctattgggga aatgtaaacc cgatcggtgt tagaagctgt 360

tatgatgaan gaaaacgtgt tgccgagact cctatgtttg attancat 408

<210> 3294
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B3

<400> 3294

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gtcgtcatga tgcagcagcc acctccagct tccaacggtg ctgcaacagg gccagggcag 120

attccttccg accaacaagc ttacctcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtctgcacc gtcttctggt 240

caaccacagc agcagcagta tggtggtggt ggatctcaga atccaggatc agctggtgag 300

atccggtccc tgtggatcgg tgacttgcag ccatggatgg atgagaacta tctcatgaac 360

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gtantc 426

<210> 3295
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H1

<400> 3295

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agcctcttct tgttcgtgat ctctcttcct ccggaaaaag atgtcggccg gtaacggaaa 120

tgctactaac ggtgacggag ggtttagttt ccctaaagga ccggtgatgc cgaagataac 180

gaccggagca gcaaagagag gtagcggagt ctgccacgac gatagtggtc cgacggtgaa 240

tgccacaacc atcgatgagc ttcattcgtt acagaagaaa cgttctgctc ctaccacacc 300

gatnaaccaa aacgccgccg ctgcttttgc cgccgtctcc gaggangaac gtcagaagan 360

tcaacttcaa tcaacaantg catccntaac atcgttaacg anagaatcag gacaaaggtg 420

gtaaaaggaa 430

<210> 3296
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D3

<400> 3296

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aaggagagac atacgaagag attgtggggt tagctagggc aatgatgnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn tcttctgctt gtggaagtgc tgatgtacta gaggcactag 300

gagtggttct ggacttggga ccagagggca ttaaaagatg tgttgaagaa ggggggatcg 360

ttttatgatg tcaccaatgt atcatccagc tatgaagatc gttggtcctg ttcggaaaaa 420

gcttaaaatt aaaactgttt ttaacataat gggacctaag cctaatcctg ccaagagttc 480

ctaagccgtc gttgg 495

<210> 3297
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D4

<400> 3297

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ggctgaaagt gaagcttctg tgaggtaccc gggatgatcc gtatgataga atatgggaat 120

ctgatttgca aaagaagcct aattatcttg tggatgttgc tgctgggact gtgcgagtgt 180

cgactacatt gccaatcgaa agcagggtcg atgacagacc gcctcagaag gttatgcaga 240

cggctgtggt tggaacaaac gggtccttaa cttacagaat gaacctagat ggcttccctg 300

ggttttggtt gggcattcac atactttgct gaaatcnaag gatttggctg aaggatgaat 360

caagggaaat ttaaattaat tctanctgaa cancctgagt atancaaatc cggtttgtta 420

acatcaangg aaaatacaca gagaccgtta cnccgttt 458

<210> 3298
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D5

<400> 3298

gaatgttgcg cgcntaccgg tcaggaaatt cccgggatcg tcttcgtctt ctacaaattt 60

tgtttgttgc ttggttttga agccggcctt tgatgggtgc ggcagaatct ggaaccgatc 120

ggagaagctt agcttatgga tttggagttt ctctgtgaat gaatctctgt ttgttatggg 180

gaagaatacc gtcgaggagc agaatctccc tgtgagcgac ggagctgctt cggctaggaa 240

taacggaggt ggaggaataa gcacatgttg ttgctgtgat tggatctcta gctactttag 300

tctcagatgc gttttgantc ttgctttttc tgctgctgtg tntctctccg ccttgttntg 360

gttacctcca ttcctcggat ttgcangatn caagggatct anatctcgat ccaaggttta 420

aagatnacag aatantggcg anttttgang ttggaaaacc aatttcgttc aagggaaaac 480

aantttaggc 490

<210> 3299
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D6

<400> 3299

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cttgtaatcc atttcagcga ttagatataa tcaaaacttt ttcaacttgt agtggccaaa 120

ttttttgttt aatggttgta aagatatcga aaaagttttt tgatgttaaa gataaagaaa 180

aaattgattt accacctggt ttcagatttc acccaactga tgaagaactt ataacacact 240

atctaagacc aaaggttgta aactcttttt tctctgctat agctattggt gaagttgatc 300

tcaacaaagt cgagccttgg gacttgcctt ggaaggctaa gcttggggaa aaagagtggt 360

acttcttttg cgtaagagac cgaaaatacc cgactggttt aagaacgaat cgtgctacta 420

aagccggtta atgggaaagc tacang 446

<210> 3300
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D8

<400> 3300

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aatattttgc ttcatccaag gtcttgaaga tgggtataaa agtttcatca aagatcaaaa 120

gaattctcgc atccacagct tcaggtagtt caaatcccaa agatggtgct gacgtggatg 180

tccgagagga atatgcaaac gcctttcgta cggaatcata caatcacttt tggacacgtg 240

tcgtacagct aagccgcaaa aagtccgcag tgtcttcttc ttcttcttct ccaccaatcg 300

aatcatcctc cacgtcagct cgtctcatgt cttatccgcc tattcgcgca caatcttcta 360

nacccgggnt ctgantanca ttactcgggt actaagatgt aaccccgggt cngggcgaca 420

cacccgaaac tcntctctct gattacttt 449

<210> 3301
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E1

<400> 3301

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ggatatataa tctcactgat ttgtttcttt ttttgttctt gtttcgtttt ctatatgttt 120

atggatgagt tgtagtttcc atctcccagc cggatataga aagaagaaac agaggaaatt 180

tgttcataaa ggaggtacat atatacacat acaagtctct gtgaaatatg acatctcagc 240

taaaacgaac tttaaccaag agatacggtg ttcttgaact gtgggagatc atagtgattg 300

ctctctttgc aagccttcat agtaatcctt gtcctttcaa gtttggctca acttcccgta 360

aaaagtccaa aagatctaat gctacaacgc ttcctgtaac tcaaagccct cgcnttaacc 420

gaagaaataa aagaaataaa gtgttgatc 449

<210> 3302
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E10

<400> 3302

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agctggataa tcggagggct cttgcttgct tcacagtatt ttcttatatc cgtctggtat 120

attcttcaga ctcgtgtcat ggaggtttac cctgaagaga taaccgtagt cttcttctac 180

aatttatttg caacactaat ctcagtacca gtatgtcttt ttgcggagag caacttgact 240

tcttgggtgc ttaaaccaga catttccctc gctgcaatca tatactcggg agtcttcgtt 300

tcattattca gcgcgcttac ccacacatgg ggtctgcatc tgaagggtcc ggtatacata 360

tccttgttca aggcattgtc tantgccatt gcagtcncca atgggtgcna aaatcctcgg 420

ggatgc 426

<210> 3303
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E12

<400> 3303

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tttatgaagc aactgagcta ataaaaagct tcttcttaga ctcggaagaa gataaaaaac 120

agaatcttta ttgtttaaag cttccaaatt cgagaagaga atttgaaacg accaagttca 180

gganatncgt ttcttcgtct actttggtct cttcctcttc tctttcgaaa agggtttatt 240

ctgtcttaaa agaaaccttt ttgagagggt aaaaaaagct tcaattttca gagaaacaca 300

aaaggcaaga aacagagaaa aacaaatcat ctaattcatg aaacanggtt caatgaatan 360

atcgtgtctc tgtantgtcn taancaccac tgctctgatt tgtggtgctt acntcatttg 420

ca 422

<210> 3304
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E5

<400> 3304

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ttggaccagc tactgttgga ggcgttcaag ctggagcctt taaaattggt gacacagctg 120

gaactattga caatatcatc caatgcaagt tgtacaggcc tggatctgtt ggctttgtct 180

caaaatctgg tggcatgtct aatgaaatgt acaataccat tgcccgtgtg acagatggga 240

tctatgaagg cattgctatt ggtggggatg tgttcccggg ctcaacttta tctgaccata 300

tcctgcggtt taacaacatc ccacaagatt aagatggtgg ttgtacttgg gagaacttgg 360

gaggaagaga tgaatattcc tccaagttga aagccatgaa acaagggaaa agttgaccaa 420

accantggtt gcttgggtca gccgggactt gtgcacgtct att 463

<210> 3305
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E6

<400> 3305

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tccgtcttta taactaccat attctcaatc acaacactcg ccactgtttc gaatagatgg 120

cttctatttc aacccctttt ccgatttctc tccacccaaa aaccgtacga tcaaagccgt 180

tgaaattccg agttttgacc cgtccgatca aagcttccgg gtcagaaact cctgatctaa 240

ccgtagcgac acgaaccgga tccaaagatc tcccgatccg aaacataccg ggaaactacg 300

gtttaccaat cgtaggacca atcaaagacc gttgggatta cttttacgac caaggagctg 360

aagagttctt caaatcacga atccgtaaat acaactccac ggtgtacaag agtcaacatg 420

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ttcccggttt taatcgat 498

<210> 3306
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E7

<400> 3306

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag caaccaagtc atggcagaaa 120

tcaccgacga gttagcgaca ttgatggagg ttaaaacaga gcttgaccca gaagacaaac 180

acttagcttc atggagtgtt aatggagatc tgtgtaaaga ctttgaaggt gttggttgtg 240

actggaaagg acgagtttct aacatatctc tacaagggaa aggcttatct ggtaaaatct 300

ctccgaacat tggaaagctt aaacatttga cgggtttgtt cttgcactac aatgctcttg 360

ttggagatat tcctagagaa cttggtaact tgtcggaact tacggatctt tatctcaatg 420

ttaataatcc tctccggtga gattc 445

<210> 3307
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E8

<400> 3307

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ggggcatgca tttgggggaa gcattgtaca ctgtggaggc aaggcctgcc gttgcaggca 120

agcacgaagc aatgtgggga tgtcgcatgt gatctactga cggctgacaa gagggaggtg 180

gcggaggagg ggtggtgttg ctatgatgtg ggcggcggct gctgttactg ggcgcatctg 240

ccctgtactt gctacggtgc tgcgagccat gtactgctgg agatccaaag agttgtgcgg 300

ctgctgcctt gccancagtc tgctgacgtt ttctgttgtc atgcacactg gggaaggcat 360

ggcatggtgg gaactggccg gccgcanctg gcatactggc tgtttggcng ctgttcatg 419

<210> 3308
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-E9

<400> 3308

ggagaaaaca aatacataat cggagaaata cagattacag agagcgagag agatcgacgg 60

cgaagctctt tacccggaaa ccattgaaat cggacggttt agtgaaaatg gaggatcaag 120

ttgggtttgg gttccgtccg aacgacgagg agctcgttgg tcactatctc cgtaacaaaa 180

tcgaaggaaa cactagccgc gacgttgaag tagccatcag cgaggtcaac atctgtagct 240

acgatccttg gaacttgcgc ttccagtcaa agtacaaatc gagagatgct atgtggtact 300

tcttctctcg tagagaaaac aacaaaggga atcgacagag caggacaacg gtttctggta 360

aatggaagct taccggagaa tctgttgagg tcaaggacca gtggggattt tgtatggagg 420

gctttcgt 428

<210> 3309
<211> 268
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-F12

<400> 3309

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gctccaacgg tcgagttgtt gctgttacac tttccgcttg atttagaact tgtaggtctc 120

tttggaatgt tataaaaagg acctcttcgg ctttttgta ttaatcaaca gctacgtaca 180

aataagccga agaggtcctt tttatacgta gctgttgatt aatacaaaaa gagaactctt 240

ctcgcaaaaa aaaaaaaaaa aaagggcg 268

<210> 3310
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D1

<400> 3310

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attcagatcc tggttgatgg agaaccaagt taaagctgat gagcatgtgg ttacagtaaa 120

gattgcctaa gtgaaaagaa aggagaattg agtcttcatc ttcaatagac caaggttagt 180

aagcgtgagg aattgcgtgc aatattttgt tcgtgtgtga agttcaaaga aaacgttttt 240

ggcaagatca gatgaaaaca tgccgtctta gtctatatgg cggggcagtt gctcaggttt 300

agttgtctcc ctcgtttggg ttgtcgtctc cctcgtttgg gcttaagctt ctcttcctcg 360

actatattac ttccgntaat ttgggggttg agccttttgg gtaagtcctg ggtctatcct 420

canttantaa taaaccgatg ttttggctta a 451

<210> 3311
<211> 507

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A3

<400> 3311

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agaagaagag agagactcgt aagcaacaat aaccaatagn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngac gtcgtcttcg gctttgtagc 180

atctcgccga agcgtcgttg atttgagaga gacccaattt ggattgttag aaaatgggtt 240

acataggagc tcatggtgta gctgctctta agaaacacaa atacagtggt gttgatcact 300

cttatcttgc caaatatgtt ctccaacctt tttggaaacg ttttgtcaaa atcctccctc 360

ctatgggatg gcccccaaca tgataacact taaggggtc angtttcctc ccanatcctg 420

gctctcctaa ggctatatat actcanctaa agttgggatt ctccaactcc tcgaaggggt 480

ccaactttgc acacgggtta cttctgg 507

<210> 3312
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A9

<400> 3312

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ctactctccc cctccggttt accactcacc ancancacca naaaaanatt acgtttacaa 120

gtctcctcct cctccggtta agcactactc tccccctccg gtttaccatt ccccaccccc 180

acctaaaaag cattacgtct acanatctcc accaccaccg gtgaagcact actcacctcc 240

tccggtttac cattccccac cacccccaaa gaaacactac gtgtanaaat ctcctcctcc 300

tccggttaag cactactctc ctcctccggt ttaccattcn ccaancccca ctaaagaaac 360

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cattcccc 428

<210> 3313
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B10

<400> 3313

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agagcacttt ctggagtctc atctgtgcaa tttccatggg tgaagatgtt taaagagtct 120

cctttgtcta agctgattga agttccgtta gctcatattc cggaaccagt gtataagaca 180

tcagttgatt ggatcaacca tcgtccaatt gaggcacttg gagcctttgt gttgtgggct 240

tttgattgta ttctcacaga tttagcagca caacaaggtg gtgctaaagg tgggaagaan 300

ggtggtcaac anactacttc caaatctcan gtggcaatat ttgttgcatt agcgatggta 360

ttgcgtaaga agnctgatgc tttgactaat gtatgccaac tcctgangga agaatcccaa 420

attac 425

<210> 3314
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B11

<400> 3314

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ggtggaggtt gtttccaatt taaagtatgt acctttaggt tagaaattag gcttatttgt 180

ttctccagtg ggtttcattg tagaaacaaa ttgaatttta ggtgttaatg tgagattagg 240

aaacagaatc tctgctttta acaaggtaat aggagaatag ggtttagtag aagaaaggtt 300

aaaactttgt gatgggtaat aanttgggaa ggaagaggca ngtggtggaa gaaaggtata 360

caaagcctca angtttgtat gtgaataaag atgtcgacgt ta 402

<210> 3315
<211> 447

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B2

<400> 3315

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cctttggttg ggtaatttag tctctgctca tagnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaac caattgaatt 180

agctaagctc agagatcctt cttggtttgt gttttgcgca agtcagtttc tctctggtta 240

tggaattgcc tttatgtcct ttgctcttct gctttgctgg gtcctcttgg gcnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngcagc 360

gtcatctaca agctcctttc tagcttcttt gaggtttgaa nttgggctac aagcgtcaca 420

agtggaacga ttaacatgtt cctcncc 447

<210> 3316
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B3

<400> 3316

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gaatcaggag gttctggtgg gaaagataaa accaaaaaac ctgcttgcga tgatatcata 120

gggcttgatt ccttgaaaca gttcttgtta tacatagcca aaggtactga gattaagaaa 180

gatacccgag taaaaaagag cattctctgt gcggctggca agatggaaat tcgatcagat 240

ctgatggatt ctcatatata tgccttcaag agagcagttc tgcaggaagt tttggatcaa 300

aaacctgctt ttaggagcct aaaacaggat gtactaccgt atcttgttcg tacacagctg 360

agatnagatg tcctctctga ccaaagtaat gtnnaagaaa atgggaatgg gaatgggaaa 420

aataatatgc agaacaacga aggtgggcct 450

<210> 3317
<211> 453

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B4

<400> 3317

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aaccaccccct tcttcaccgg 120

acccaccgcc gtcgcgccgc caaacaacat ccatctctat caagcagctc ctccgcagca 180

gccacaaaca tctccaagtt cctcctcatc catctatttc ccaccctcct tactctgaca 240

tgatttgcac ggcgattgca gcgttaaacg aaccaagatg ggtcaagcaa gcaagctatt 300

tcgaggtaca tagagagaat ttacactggg attcctactg ctcatgggag ctttgttgac 360

acaccatctc aagactttga agaccagtgg gattcttgtc atggttaaga aatcttacaa 420

gcttgcttct actcctcctc ctccctcctc cta 453

<210> 3318
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B6

<400> 3318

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tacttaaact cttctctctt tcctctctca ctttaaaaat ccacacttta nagcacacaa 120

tacaaaaaat aagggtttct ttatcttttc gtttcttcca aattttgtaa tggatttgat 180

gcaaatggat aagcgtttgg attcaacgga gcaagtggtt gaagaaatca tgagaattca 240

cagatctcta cccgcaagac caggaattga cgaagttgaa gctgccaagg gtttgattga 300

caacgttgag aaagaagatc aagcttgttt agaagccatt gctagacaga ggaaaagctc 360

tgaagttcct ggtgagcttt tcatggtgtt gcaagaaatg aagaagggtt aaggttcagt 420

ttcgtagcaa agaacaagat aagagaaag 449

<210> 3319
<211> 495

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B7

<400> 3319

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gtgagatatg atcgccgccg gagctaaatc gctattaggg ctttcgatgg cttctccaaa 180

agggattttc gatagcaatt caatgagtaa ttcaagatct gttgttgttg ttcgtgcttg 240

tgtttctatg gatggatctc aaactctgag tcataacaaa aatggatcta ttcctgaggt 300

taaatccatt aacggtcaca cgggacaaaa gcaaggacct ttgtctacgg tcggaaactc 360

gacaaatata aagtggcatg aatgttctgt tgagaaagtt gatagacaga gattgcttga 420

tcagaaagga tgtgtgattt gggtcaccgg tcttaagtgg ttcaaggaag agtactttgg 480

cttgtgcctt tgaat 495

<210> 3320
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-B8

<400> 3320

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attggtattc ttagaatttt caccaatcag tttcctgaag ctaagattac ttcttttcta 120

agtcttggag gaagttccac caatattgct tatagccatt ggcttagata atggctgcat 180

ttattgtgtc aaaggagaca ttgcacgaga gcgtatcact cggtttaagc ttcaagtgga 240

tggacggtcc gctattacag gcttggggtt caggatggat ggccaagcgc ttctgttgtt 300

tgcagtcact ccagagtcag tcaacttgtt tagtatgcag gcgcagccac cgaaattgca 360

gactttggat catattgggg gcagtgtgaa tactgttaca atgagtgacc gctcggaatt 420

aatagttggt ccacctgaa 439

<210> 3321

<211> 348
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-B9

<400> 3321

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gacgtatgag aagagtgttt ggagcggttc atgatttgca gaatccacct agaggcactc 120

tcacattgag gttcttagtc tacggaagcg caggaatcaa ttggatccaa tcgccaaacg 180

ctattcccgc tgattggact gccggagcca cctacgactc caacattcta cttacttaat 240

tgattcactt ttcatcagtg tgtttttatc atatagtatt tattatggtt tctgtatgca 300

atggctaata tatttaaata atgccctcaa aaaaaaaaaa aaagggcg 348

<210> 3322
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-C12

<400> 3322

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ctgagaagaa gaaaaggaag ctgagtctca ttttagattc agctcacgag gaagtgacga 120

cgatgtctca ttctagaaga ctttcgttgg aacctgctat agattcaatc actggtcgat 180

ttcgtgattt acagagaaat gatgatgacg tcaacaaacc tgattttcga gaactcgatc 240

taggttctcc tgtttctacc ttaatgccac gtggctctgc ttcttcttcc gctgctgcga 300

ctcctactag cagctctggc tcttctggct ctgcttctgg taaaccgtcg gtgagttctc 360

agatggctaa acggttagat gatgcttaca agagtcattc cggtgaagct ttctaacccc 420

gga 423

<210> 3323
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-C7

<400> 3323

gaatngttgc gcggcctacc ggtcaggaat tcccgggtcg acccacgcgt ccgccangtt 60

cagagattaa acaatttgaa aaatcggaga ctctgggatt gtatggttcg ttgttactga 120

tagattactt aagctatggt ttggtttaga atcggttctt ctgtggcaaa gcttgccata 180

agaaggacac tgtctcagtc tcgttgtggt tcatatgcca ctagaacaag ggttttgcct 240

tgtcaaacca gatgttttca ctctacaata ctcaaatcaa aggcagagtc tgctgcacct 300

gttccacgtc ctgtcccact ttctaagcta actgatagct tcttagatgg aacaagcagt 360

gtgtatctag aggagttaca aagagcttgg gaggctgatc ccaacagtgt tgatgagtcn 420

tgggataact tttttaagaa ttttgtgggt caaggcttct acatcgcctg gtatctcggg 480

gcaaaccatt caagaaa 497

<210> 3324
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-C9

<400> 3324

gcccacgcgt ccgatgaata acagagcttt agattatcct cgggagaagg atggagcgcg 60

cgttcagatg agattatcat acagcccgac tgctcaattt tttctttttc ttgtacaatg 120

gactgattgt aagcttgctg gtttcctcgg tttactcaga gttcttattt atatgactta 180

tgcagatggg aaaacaacca tgtcggttta cgaaagaaaa gccagtatta gagagttcca 240

aggtatgctt atatatatgg cgatgatatt atttctggta aacaagattg atatcgttta 300

attcttatga gctttttaat attttcgtta tgttttagct gtgatattac catctttgtc 360

acaactacaa aggggtgtta cagacataga tgacagcaaa caaaaagagg tatgcaagat 420

gcgat 425

<210> 3325
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A2

<400> 3325

gagaagatgg gcatggcaat gaagtcagtt tctaacttcg caatcttttt aatcctcttt 60

ttggtcacct ctgaaatatc tgagatagaa gcgaaagata aggaatgtct aaaaggatac 120

attgatgcgc ctttaagcta ttgtatggct aggatttatc cgtcgttgtg ttatcgaaat 180

tgtcgttttt acaagggcgc gaaaggtgga aaatgcgacg gtcttaagtg cttctgcgac 240

ttctgcagcg acaagccttt ttagtcagtt tctgatgaga aatgtttgaa tcttggcatg 300

tataatggtt tgtgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn acgctagact ttgattgtgt tatcactaaa ataaaatgaa gataagtggg 420

acttcggttg tggatnactc cacgagtg 448

<210> 3326
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E6

<400> 3326

gattcgctgt ttgaccaaaa aataaaaaat tattgtttcg ctgagaaatg tatagataat 60

tatattatac gttagattgg taactaccaa aaatattact atatgttaga ttggtcacaa 120

aataagaaaa gaaaggtagt gtatatcaat ttattaatga cgtatttaat aaagttggtc 180

tcaagcgaaa tgaattgttc tttactgcta caaggcatat aatcctgtaa agaaaatctg 240

ggtggtcgaa ttgttctttt ccctttttct aatttcaaca tcaaaagttg ttccaccaga 300

agaatttgtt ctctgcagca gtaaagatcg atccgttctt gcttacaagc agaaaaatca 360

tatcgacaga gagagatgag acagaactca gcaactgggt ggtctttcat ggcggcgttt 420

actgttcctt cgct 434

<210> 3327
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E7

<400> 3327

gaagaaagtc caagcaagaa tggagcaatt tggaggcaaa tcttccgaac acgatatatg 60

tgcgtgtgtg tgaagaaagg atggaccttc tgcgtgcagc cctggttggt gcccctggaa 120

cgccatatca cgatgggctt ttctttttcg acataatgct tccacctcaa tatcctcatg 180

agccaccaat ggtacattat cattcaggtg ggatgcgact gaatccgaac ctgtatgagt 240

caggaagagt ttgcttgagt ctgctgaata catggagtgg ctctggcact gaagtatgga 300

acgcagggag ctcctccatc cttcaacttc ttctttcgtt tcaggctctg gttctgaatg 360

agaagcctta cttcaatgaa gctggctatg ataagcagtt gggccgaacc gagggaaaag 420

aaaaactcag tgagt 435

<210> 3328
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E8

<400> 3328

gctgaactcc aaacatcgcc atgtccgaga ttctctcttc gttgaggtca ctaatggcct 60

ctcactctcc tcctcttgat gctttggttg ttccttccga agactatcac cagagcgagt 120

atgtttctgc acgagacaaa cgccgtgagt tcgtgtctgg attcagtgga agtgcaggtt 180

tggcacttat cacgaagaag gaagcaagac tttggacaga tggtcgatac ttcttgcaag 240

cattgcaaca gcttagcgat gagtggacac taatgcggat gggagaagat cctcttgttg 300

aagtttggat gtctgataat ctacctgaag aggcaaatat aggtgttgat tcatggtgtg 360

tctcggtaga cactgcgaat agatgggggga aatcgtttgc caagaagaat caagaaacta 420

atcaccacaa c 431

<210> 3329
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-F2

<400> 3329

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attcagttcc tccatgacaa gacgattctc gtcaccggtg ttcccggttt cctcgccaaa 120

gtgtttgtgg agaaaatatt gaggattcaa ccaaaggtaa agaagctttt ccttcttttg 180

agagcagcag acaatgaatc agccatgcaa cggtttcaca gtgaggtttt ggagaaagat 240

ctttttagag tgttgaaaaa cgctttaggt gatgagaatc tgaaagcttt cataacagaa 300

aaagtcgtac ctattcccgg tgatatatcc gttgataatt tgggagtgaa gggttctgat 360

ctcttacaac atatgtggaa tgagattgat atcattgtca atgtagccgc cacaacgaac 420

tttgat 426

<210> 3330
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-F6

<400> 3330

aatccaacat gggcttctgt tccttatggg atcttcctat gcatcgattg ttctgctgtt 60

catcgaagtc taggtgttca tatcagcttc gtcaggtcaa cgaacttaga ctcgtggagt 120

cctgagcagc taagaacaat gatgtttgga gggaacaatc gagctcaggt gtttttaag 180

caacatggat ggaatgatgg tggtaagatt gaggctaagt atacttcaag agctgctgat 240

atgtatagac agactcttgc taaagaagtt gctaaagcca tggctgaaga aactgtttta 300

ccgtcgttat cctctgttgc tacttctcag ccagtggaat catctgaaaa tgggtttact 360

tctgaatctc cgaaagagag ttctttgaag caagaagcaa ctgttgtctc ttcaccaaaa 420

gctt 424

<210> 3331
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-F7

<400> 3331

gaaaaaacct ctcttctctc tcctcactgt aacaaatttt tagatctaga tctgcttttc 60

tcggtgcctt tgatcttcat ctctttggct ttgctttgaa atttcagggg tgaacaagat 120

gccttctccg ttggcagtgg tgtggttttt ctctccttcg atgtagttgt ggatccgatg 180

tgttggaagt agagagttgc tacgattccc ttcggttgtg gacgccggtt ggtgtagcga 240

tttcttctcg tggctcagcc gtcgtgtcgg cctctgcaac tacngcgnga agtcgatcga 300

agagaaggtg ggtaagtgcc aattcgccat gggaggttaa cggtggatnt tcctaaattt 360

gttggctgtc gcggattcag tgtgtttggg tgtttcgctt gagccttggg ccctcaaaca 420

acancgtgac ttgct 435

<210> 3332
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G3

<400> 3332

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aaaagaagaa gatgagatgg taaagaatgc tgtattagaa tacattgata accatgcttt 120

aggagatgag gggataaaga tggttatgga atgcaaggca tacccacaac ttaaaggctg 180

ttggaaagaa attacatctg ctttaccttg gaggacttat aatagtgtgt atcatcgtgc 240

acatactata tttgaagcag gatctcaggg gatatggacg aaagaggata ttgaactcgt 300

tatggagttt caaaagacac acgggaatga ttggaaaaca cttgcagatg caatgggtaa 360

gcacaggaag catgtgaaag acgcttggag gagangaaga ttggcangta agaagaaagg 420

acattggatg agggaag 437

<210> 3333
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G5

<400> 3333

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acaccaaatc cttcattttc atctcttaca caaccacact aagttaccaa aaaacagaat 120

ctgttctttt tttgccttct tgcagatttc ttcagagtca aagacacata aagatttata 180

attgagttgt gagttttgga ggccatggac gtaggagaga gcaatgagag ggtaaaagac 240

gattctgccc ttcaagcttc accgaggagt cctctgagtt ctatagatct tgcaattgat 300

ggagctatga atgcttctat tgagcagttg tatcataacg tttgtgaaat ggagagttct 360

gatgatcagt ctccgtccag ggcgagtttt atttcgtatg gagctgaatc caaggattga 420

tttggagttg angc 434

<210> 3334
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G6

<400> 3334

tgggtttata tcattgcttg gttgttctga tgatgacata aaagaacttc tgcagctgtc 60

gcaggagttc actttagtgc ggtacccaga ccaggttgcc cttgaaaggc ttttccgagt 120

tgaagatatt anagttgggg ctacttctcg aaaggcgatt cccttactag ttgaacttct 180

taaaccaatt ccagaccgcc ccggtgctcc tctactttca cttaatcttc taactcagct 240

tgctggggac tgtccacaaa atatgattgt catggtagag tcaggtgctc ttgagggtct 300

ctcgaaatat ctttcccttg gacctcagga cgagcaagag gaagctgcaa caggtctttt 360

aggcatctta tttagcagtg ctgaaattcg aaggcatgag tcagcatttg gcgcggtcag 420

ccaa 424

<210> 3335
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-G7

<400> 3335

gcggacgcgt gggatctcta caaagcttaa cttacaagct gattcaagca aagagtcaga 60

ggatttcttg tactctttca aggcgcaaca ccttccaccg attgtgttga aatgtttatt 120

accaaaagct tatccgagcc acttaccgcc ttatttctta ataagtgttc agtggatgaa 180

tcctgataag atttcaagtc tctgctctaa gctggactcg ttatggagtg aacagccagg 240

gcaagaagtc ttgtaccagt ggacagattg gctacagaac tcgtcgattt ctcatcttgg 300

ttttgataat gagattgttc ttggtcctta tggtgttaca tgttccagag ataagcgtgc 360

tgtgtctgga aatcgttctc cggattcaga tattccttat attaggagtt atgacgatga 420

gaaacgtcat gat 433

<210> 3336
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H7

<400> 3336

ctgttttatt tttttcttcc ggtggtacaa aaattcacaa tgaactgtat ttatcacaat 60

taatgaccga ttgctnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggaagtaac 120

caaacaagcc tatatgctgc tgatcccatc taggggccaa gcctctcttc tttaaaaact 180

tttgacttcc attttcttga gaattcccct ttctgggttc ttgatttgga aagatgggta 240

acaagataat ctcaatgatg aagaaagata gcaaagatgg gaggaagang aggatctaaa 300

gagcaaagag aatgaatcgg tctcaagagg aaaattactt gctgatgaaa gagatgtttg 360

catcctccaa gctcctttcc aatggngaat tcaacaaagc tcaagctttc tcaaaaaatt 420

tngatgggtt caaaggtcaa aaacggggtc cggggtccaa caaagtanaa 470

<210> 3337
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H8

<400> 3337

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ttggagcaaa tcnaacccat ccgtaantta tttgctgctc ttttcctagc cagcattggg 120

atgttagtta atgtccattt tctgtggaca catgtggata tactgttatc ctctgtgata 180

ttagttatta ttacnaagac aacaatagtt acaaccgttg ttaanggatt tggatacaac 240

aataagacng ctcttctggt tggaatatct ctggctcaga taggggagtt tgcctttgta 300

ctacttaacc gtgcctccaa tcctcaactc atcgaangga aactccaacc tggctccccc 360

ttggaacaan ccgctctaaa gcctgggtta cgacaaccgc tgggttttca aaaatggata 420

ccaacaattt gtacatcc 438

<210> 3338
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-A10

<400> 3338

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cttcccagta ttgtactgat gttgcaaagg ctttgagtgc tcccatcttt catgttaatg 120

gggatgatgt tgaggctgtt gttcatgcct gcgagcttgc tgctgagtgg cgtcagactt 180

ttcattctga tgttgtcgtt gatttggttt gctaccgtag gttcgggcat aatgagatag 240

atgaaccatc tttcactcag ccaaaaatgt acaaggttat caaaaatcat ccttcaaccc 300

ttcagatcta ccacaaaaag ctcttggaat gcggtgaagt atcacaacag gatattgacc 360

ggatacagga aaaggttaac accatcctca atgaaagaat ttgtccctaa gtaaaggact 420

aacccccc 428

<210> 3339
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-A12

<400> 3339

gcggacgcgt gggttcgttc ttctctacgg atactccatg ggagttgagt tgagcactga 60

taatgttatc gccgagtact tctttgacag gtttcacttg aagctccaca cagcagggct 120

catagcagca tgtttcggaa tggccaattt ctttgctcgt ccagcaggag gctacgcatc 180

tgactttgca gccaagtact tcgggatgag agggaggttg tggacgttgt ggatcataca 240

gacggctggt ggcctcttct gtgtgtggct cggccgcgcc aacacccttg taactgccgt 300

tgtggctatg gtgctcttct ctatgggggc acaagctgct tgcggagcca cctttgcaat 360

tgtgcccttt gtctcccggc gagctcctaa gcatcatcct cgggtttaac cggggctgga 420

gggaac 426

<210> 3340
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-E5

<400> 3340

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gagatgtctc cggaagctta cgttctgttc tttaacagtt ttaacctcgt aaccttcgaa 120

gcctttgctt cagtctcact tatcatagcc acagttgctt tcttgctctc accaggtggg 180

ctcgcatggg cctggaccgg gtcatccaag agtcgggttt cgattccagg accatctggt 240

tctctttccg tcttctccgg ctccaatccc caccgtgttc tcgccgctct tgctaaacgc 300

ttcaaggcct ctccgttgat ggcgttctca gttgggtttt cgcgtttcgt tatctctagt 360

gaaccggaga cggctaaaga gattttgagc aagctctgct tttgctgacc ggncggttaa 420

ggatcagctt aag 433

<210> 3341
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C8

<400> 3341

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cgagacgttc tttgtcaccg attgacatat tcaaaaacga cgaagctagg taaaggaacg 120

gagagaagag tcgataatag aagcgtacag atgggaaatc agaagctcaa atggacggcg 180

gaggaagagg aggcgttact cgccggagtt aggaagcatg gccctggaaa gtggaagaat 240

attctccgcg atcctgaatt agctgagcag ctctctagtc gctctaacat cgacctcaag 300

gataaatggc gtaatttaag tgttgctcct ggtattcaag gctcnaagga nttaagatac 360

cggcaacaaa natcaaanct ggcggctttc aac 393

<210> 3342
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-B11

<400> 3342

acgnntccgc tttattcttc catatctctt ccatttcgct ctctatttca catccccata 60

taacataata tacaatcaca catatcattt ctatatanta tttaatgggg agacagccat 120

gctgtgacaa gctaggggtg aagaaagggc cgtggacggt ggaggaagat aagaagctta 180

gaancttcat acnaaccaat ggccattgtt gctggcgtgc tttgccgaag ctggccggtc 240

tccgtcgctg tggaaagagc tgccgcctcn ggtggactaa ctatctccgg cctgacttaa 300

aacgaggcct tctcncgcat gatgaacaac ancttgtcat agatcntcat gctaatctcg 360

<210> 3343
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E2

<400> 3343

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gaaacttctc aattacatca ctagacatgg tcatggctgt tggagttctg tccctaaact 120

cgcaggtttg caaagatgtg gaaagagttg tagacttagg tggataaatt atttgagacc 180

agatttaaag agaggagctt tctctcaaga cgaagaaagc ttgatcattg agctccatgc 240

tgcattaggc aacagatggt ctcaaatcgc aacgcggtta ccgggaagaa cagacaacga 300

gatcaaaaac ttttggaact catgtcttaa gaagaagctg agaagaaaag gcattgaccc 360

aacaacacat aaacccttaa taacaancga gcttcaatct cctaacgtca taaatnag 418

<210> 3344
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 39-LIB22-072-Q1-E1-B4

<400> 3344

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aatctccttt gnaaanatgt gtttcatgga ggagaaacac caagtgagca acaacaacaa 120

caaccagttt gggatgacaa actccgttga tgctggatgt aatgggtatc agtatttcag 180

ctctgaccag ggtagtaatt ctttcgattg ttcggagttt ggttggagcg atcaagctcc 240

gataactccc gacatctctt ctgcggttat caacaacaac aactcagctc tgttctttga 300

ggaagccaat ccagctaaga agctcaagtc tatggatttc gagacacctt acnacancac 360

tgaatgggac gcttcactgg atttcctcaa cgaanatgct gtaacgactc angacaatgg 420

tgcaaaccta tggacctatg gagtattgat gaaantc 457

<210> 3345
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D12

<400> 3345

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ttcgccgttg tcggagctga cgtttggtga tacggaggag gagattcagc cgccgtggaa 120

cgagaacgcg ttggagaagt atccgtcgta cgagatcgat tgggattcga ttcttcagtg 180

ttcgagtctt gtaaattaga tgttgccata ggggtatttt agggacttta gagctctctg 240

cgatggagtt tttggtcatt gcagagattt tattattatt aaggggggttt gttatgttaa 300

tatcaaataa gtttatctac tttgatgtta attagtgtta atctctgcgt cggtccaagc 360

tgtttttttt tggcatgctt cgaccgtgtg agattctang taatttttgt 410

<210> 3346
<211> 258
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G12

<400> 3346

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tcgttatgta catattatta cataaccgga gatctgaact tttgttgtgt gcnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnncca aattttcaat caataatttg gtaatcttca gaattatctt gtccnnnnnn 240

nnnnnnnnnn nnnnnngg 258

<210> 3347
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D6

<400> 3347

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tgacacagtt gctttgggtt tccctcaaac ggcgccgatt gtctggattt tgaccactga 120

tggccttaga tcaatctttt gaagatgctg ctttacttgg agaactctat ggagaaggtg 180

cattttgttt caagagcaag aaacctgaac ccattacagt ctcggttcct tctgatgata 240

ctgatgattc gaattttgac tgcaatattt gcttagactc ggtgcaagaa cctgttgtga 300

ctctctgtgg tcacctcttt tgctggcctt gtattcacaa atggcttgat gtacaagagc 360

ttctcaacaa gtgatgaata ccagaagaca tagganagtg tcctgtttgt aaatctaaaa 420

gtttctcatt ccnactttgg ttcctttgt 449

<210> 3348

<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F3

<400> 3348

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ccaaccttaa cccttaagcn aacggtgttc ctttgcggat tgcgatcgtt ccgtcgatcc 120

cttcaacgcc cgatctaaat ctccaatcgt gtcggagatt aaaagcagag gttttgtggt 180

gaatcatgtc tgatgtccct tcttgttcta ncggtaatga tacaaacaac aatgattcga 240

gtaacttcga atgtaacatc tgcttagact tggntcaaga tcctattgtc actctctgtg 300

gncacttgtt ctgttggcct tgtttataca aatggctcca tctccattct caatcnaagg 360

actgtcctgt ttgcaaaagc cgtgatcnaa gaagacagat tggttccttt gtacggtaga 420

ggtaaancgt ctgctgaccc tcggtcc 447

<210> 3349
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H2

<400> 3349

cttttaactt cccggtnccg gtcaaaaatt cacgggtcga cccacgcgtc cncccacgcg 60

tccggactcg gactcgtcgt gttcgttact gagtcgttca ctcgggtcta atctgggaaa 120

cgacgtcgtt gcgtctctca agaatctgca acttaataaa gtnnagtcct ccccttnctc 180

gtcatacaac aatcnaatcc gnagnnancg nttccggntn cggnnccccc cttgnttcgg 240

ttttgggtcc tggtttccnt accttaccaa ctacaccgac ccgacctggt tttatgaaca 300

tttggganaa tggcttggag gaagaaccgg cgatggaacg ggtcgagtcg ggtcgtgaac 360

tgcgagcgca gctgttcgan aagctgagca aagagaattg catgggtcgg attgaaccgg 420

atccggatna gggagcgggt gatactcctg atgtcnggtg ggtctctgaa cttggttatg 480

t 481

<210> 3350
<211> 824
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 31-LIB22-084-Q1-E2-H3

<400> 3350

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ccgctcaaaa ccaaaatcac taaagaggag aagattgcta aagtttgata aaacattcca 120

aaatcaatgg ctgataggat caaaggtcca tggagtcctg aagaagacga gcagcttcgt 180

angcttgttg ttaaatacgg tccaagaaac tggacagtga ttagcanatc tattcccggt 240

atatcnggga aatcgtgtcg tttacggtgg tgcaaccanc tttcgccgca agttgagcat 300

cggccgtttt cggctgagga agacnaanac gatngcacgt gctcacgctc agttcggtaa 360

taaatgggcg acgattgctc gtcttctcaa cggtcgtacg gacaacgccg tnaagaatca 420

ctgggaactc gacgctcaag aggaaatgcn gcggttacga ccatcggggt tacgatggtt 480

cggaggatna tcggccggtt aanaaatcgg tgagtgcggg atntccaacc tggttgttac 540

tggggcttta catgaanccc aaggaaagcc caactgggat ntgaatgtca gttattcaag 600

tactaatccc gatattacct tcccgttgaa gcttttcaag cctgttgcct aaaacctggg 660

tgctgttgtn ccnaccggct tcctatcnaa acgttcgtcc ttccttccga atgattcaac 720

cgacttcgtt aaancttgtc ancttccttg gtgccgacnt taagcnaang gatcaaaccg 780

ttncccacga antcaacnaa ttttcacaan accaatttca agcc 824

<210> 3351
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 57-LIB22-072-Q1-E1-G11

<400> 3351

cccgccggta ccggtccaan aattcccggg ncgacccacg cgtccgcgga cgcgtgggct 60

caaaaccaaa atcactaaag aggagaagat tgctaaagtt tgataaaaca ttccaaaatc 120

aatggctgat aggatcaaag gtccatggag tcctgaagaa gacgagcagc ttcgtaggct 180

tgttgttaaa tacggtccaa gaaactggac agtgattagc aaatctattc ccggtagatc 240

ggggaaatcg tgtcgtttac ggtggtgcaa ccagctttcg ccgcaagttg agcatcggcc 300

gttttcggct gaggaagacg agacgatcgc acgtgctcac gctcagttcg gtaataaatg 360

ggcgacgatt gctcgtcttc tcaacggtcg tacggacaac gccgtgaaga atcactggna 420

ctcgacgctc aagaggaaat gcggcggtta cgaccatcgg ggttac 466

<210> 3352
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-E1

<400> 3352

aattctccag cccgtaccgg tcnaaaattc ccgggcccac cacgcgtcna aacgggccac 60

gttgttgnga gatgattagg gattatgggc aggcagcaag tgatatggag agatatgtta 120

atattctaac caagcaaatg gaagagaaga cctctggaac ccttgacaga tctactagta 180

tgtccaatga cataagacaa gctcgtatac gactttctga actggaagag aaatcaagga 240

aagaaaattc attggatatg tacctcgtct tgggtgttgt accatcatgc tcggcttcag 300

atatcagaaa ggcatatagg aaggccgcac tcaaacatca tcccgacaag gctggtcagt 360

ctttgacaag aaacgaagac taaagatgag angttatgga aggagatagg ggaaagaatg 420

cgcaaagata ccgataaatt atttaaaatg attggggaan cgtatgctgt gctttcagac 480

cctg 484

<210> 3353
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A5

<400> 3353

tgcccgggnc gacccacgca tccnacagag gnaactcagg acgantgtga ttttttcttc 60

ttgagtgaat tgttgtaaaa aantgntgat cggagaatct catcgtggtt ttaatccaac 120

ggttcatatt cctccatggc cactttctga agatctaacg gtgtctgata tttacggaag 180

tcnagacgga ggaagtagta tgatggaagc tttggctgag ttacaacgtt atcttccgtc 240

aaacgaaccg gatccggatt cagatccgga tctctcgggt ccggattcac caatcgatgc 300

ttatacatgc gatcattttc ggatgtatga gtttaaagtg agacgttgtg ctcgtggccg 360

gagccatgat tggacggagt gtccttacgc tcatcccgna taaaaagctc gccgtcgtga 420

ttcgangaag tttcattact ccggtaang 449

<210> 3354
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C3

<400> 3354

catnggacgg cccggtcagn gataaacggg tcnanccacg cgtccganca cncgtccgcg 60

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gcataaaggt tttgactttc atcgtttcca ctggaaaatc tgatgtgaac agagcttgtg 180

gtgaagagag agttactccg cttcactgtg ctgttgctgg ctgttctgtg aatatgattg 240

aagtcatcaa tgtcttgctt gatgcttctg ctttggttaa ctctgttgat gctaatggga 300

atcaaccttt ggatgtgttt gttcgagttt cgaggtttgt ggctagtccg aggaggaaag 360

cggttgagtt gttgctgaga ggaggangtg ttggaggatt gatcgatgaa gcggttgaag 420

aagagatnaa gattgtctct aaatatccaa ctgatgcctc cttaacggga taaaaa 476

<210> 3355
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B9

<400> 3355

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agcttccatt tttcctcatc gcaatcttca tcttcaatct ccagctatct caantcgatc 120

cttctcgaat caccatcatg agtgaccatg gcgagangac ttgtccactt tgngctgaag 180

agatggatct gactgatcaa caattgaagc cttgcaaatg tggttatcan atttgtgttt 240

ggtgcnggca tcacatanng gacatggnac aganagatca antagaaggg cgttgtccag 300

cttgtcgcac tcnatatgac atngaaanga ttgtagggat gactgttaat tgtgacagtc 360

tggcttctga aggcaatatg gancgcaaga agattcanaa gtcaaaatca aaatcttctg 420

aacggagaaa ncaacaactc accantgtgc gagtgattca agaggaatcc tg 472

<210> 3356
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G1

<400> 3356

acgacggatc ttacttccat tatcatacag cttatttcaa ctgcagagtc agaacaataa 60

caactgtggt gctcgagagt tcgatttgcc taagccggtt cttgttgatg agagggaagg 120

tcatgttgtg gaggaacatg agatgaaaga tgaagatgat gtggaagaag gagagaacct 180

tcctcccggt tcgtatgaga tattgcagct tgagaaagaa gagattctcg caccgcatac 240

tcacttctgc acgatatgtg gcaagggttt caagagagac gcgaatttga ggatgcatat 300

gagaaggcat gganatgagt acaaaacagc agctgctctg ggcgaaaccg aacaaaggaa 360

tccgtaaccg ggtctgaacc gatgctgatn aagaagtacc cgtgccaatc ccttggttca 420

aacttacaag gacaa 435

<210> 3357
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A5

<400> 3357

aaattcgcgg gncgacccac gcgtccaaaa aaacattcca actttcttct caatttcatt 60

ccaggatagt attatgtgca gtggaccaaa gagcaatctc tgctcttcaa gaaccttaac 120

agaaatcgaa tcaaggcaaa aggaagaaga aacaatgctt ctcctcgaat tcgctgcttg 180

tgatgatctt gactcgttca agagagaggt tgaagagaaa gggcttgatt tggatgagtc 240

agggttatgg tattgcagac gtgtcggttc taagaagatg ggtcttgaag aaagaacacc 300

tttaatggtt gcagctatgt atggaagcat aaaggttttg actttcatcg tttccactgg 360

aaaatctgat gtgaacagag cttgtggtga agagagagtt actccgcttc actgtgctgt 420

tgctggctgt tcngtgaata tgaatgaagt cctcaat 457

<210> 3358
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-A12

<400> 3358

ggtaccanac atgagaattc ccgggccgac ccacgcatcc aagtttttg gtagtggtgg 60

tcgagaaaag agagagtttg tctctgtgac tcagagtgaa atcaatagag cgggaaaaga 120

ttgttgcttt tttttgccat gggagttgat gagctgtctc acctcaaatt ctctcttctg 180

ctagaatcat cagcctgcaa tgatttgtcc ggttttaagt ctctagttga agaagaaggt 240

cttgagagca ttgatggctc tggtttgtgg tatgggagga gattaggatc aaagaagatg 300

ggttttgagg agaggacgcc tcttatgatt gctgccttgt ttggaagcaa agaggttgtt 360

gattacatca ttagtactgg tcttgttgac gtgaaccgct cttgtggctc [illegible]tggtgcc 420

acggctcttc actgtgcggt ctctg 445

<210> 3359
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G9

<400> 3359

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aagacnagat aagacagagg gtcgttgtcc tgcatgtcnt acccgttatg ataaggaaaa 120

gattgtangg atgacagtca gctgtgaaag gttggttgct gaattttaca ttgaccggaa 180

aaagtcacag aaggcgaagc ctaaacctgc ggagggaagg aaagatctaa ctggtgtgag 240

agttattcag agaaacttgg tttacgttat gancttgcct tttgacctgc cagatgaaga 300

tatgtttcag cgaagagaat actttggtca atatgggaaa gtcgtcaaag taccaatgtc 360

tcggactgca gctggggctg tccaacaatt tccaaaacaa tacttgcagt gtntataatt 420

acttacccaa anaagangga ancgantcca agttacccga ttaattacat ggattaatat 480

ttggatggta agaaaatttg na 502

<210> 3360
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-G5

<400> 3360

ctaattcgtc tccttctatt gctcaccgga gccctaggat tggtttgccc acgaatctaa 60

atcctaaaat tttaatcagc cgcagatgtc tgagctccgg gagttacgtc tcagaaatgc 120

agaaatcagc tttccagggc aacattttgc gactgatccg taatgagatt gagtacgaac 180

tcgatcactc gcctcctctt cagcctccta acagttttgg tccattcact gtggatgaac 240

ggcctggaga gcagtggatt agcttgaaaa ggaattttgg ggataaagaa gacatcaaaa 300

ttgaagcaac tatgtttgat agatcagttc ccacgtcaaa atctaccaaa actgaacctg 360

aatatattct tcacatcact ttcattgtca acatctccaa gggtggt 407

<210> 3361
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H4

<400> 3361

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aacacaccgc aacaacaacc aacattcatc gccaccaaca caaggccaaa cgccaccgca 120

tccaatggtg gctccggagg aaataccaac aacacggcta cgatggaaac tagaaaggcg 180

aggccacaag agaaagtaaa ttgtccaaga tgcaactcaa caaacacaaa gttctgttat 240

tacaacaact acagtctcac gcaaccaaga tacttctgca aaggttgtcg aaggtattgg 300

accgaaggtg gctctcttcg taacgtccca gtcggaggta gctcaagaaa gaacaagaga 360

ttctctacac ctttagcttc accttctaat cccaaacttc cagatntaaa cccaccggat 420

tcntttctca angccaaaat ccc 443

<210> 3362
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A12

<400> 3362

cgacncgtcc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnggcatc ggttacatat gggattttcc tctgcatcga ttgttcagct 240

actcaccgga atcttggtgt tcatatcaag cttcgtcaga tcaacgaatt tagactcttg 300

ggagcccgga gcagctcaag ggacaatgat gtttnggtgg gtaacaaacg tgcccaaagg 360

tttccttcaa agcaacaatg gatgggactg aatggtggca aaantgaaac naaatntaat 420

tcaanaactg ccgaattgta accgna 446

<210> 3363
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-K1-E4

<400> 3363

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cgaggaagag atatgtgcgg tgcaaagagc aacctttgct catctaaaac cctatcagaa 120

gtcgaattca tgaggcagaa atcagaagac ggagcttccg ccacgtgtct cctcgaattc 180

gccgtctgtg atgatctttc atcgtttaag agagagatcg aagagaatcc atcggcggag 240

attgatgagt cagggttttg gtattgcaga cgggtcgggt ctaagaagat gggttttgaa 300

gaaagaacac cacttatgga tgctgctatg tatggaagca tggaagtgtt gaattacata 360

attgccacag gaagatccga tgtgaacaga gtttgcagtg acgagaaagt cactgctctt 420

cactgtgcag tttctggctg gactgtttct atcgatgaga tcatcaagat cttgcttg 478

<210> 3364
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-B1

<400> 3364

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ctaacagaag tcgaattcat gaggcagaaa tcagaagacg gagcttccgc cacgtgtctc 180

ctcgaattcg ccgcctgtga tgatctttca tcgtttaaga gagagatcga agagaatcca 240

tcggtggaga ttgatgagtc agggttttgg tattgcagac gggtcgggtc taagaagatg 300

ggttttgaag aaagaacacc acttatggtt gctgctatgt atggaagcat ggaagtgttg 360

aattacataa a 371

<210> 3365
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-B11

<400> 3365

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tttctccaag ttatcttctt ttctaggaag agatatgtgc ggtgcaaaga gcaacctttg 120

ctcatctaaa accctaacag aagtcgaatt catgaggcag aaatcagaag acggagcttc 180

cgccacgtgt ctcctcgaat tcgccgcctg tgatgatctt tcatcgttta agagagagat 240

cgaagagaat ccatcggtgg agattgatga gtcagggttt tggtattgca gacgggtcgg 300

gtctaagaag atgggttttg aagaaagaac accacttatg gttgctgcta tgtatggaag 360

catggaagtg ttgaattaca taattgccac aggaagattc gatgtgaac 409

<210> 3366
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-B5

<400> 3366

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tatcttcttt tctaggaaga gatatgtgcg gtgcaaagag caacctttgc tcatctaaaa 120

ccctaacaga agtcgaattc atgaggcaga aatcagaaga cggagcttcc gccacgtgtc 180

tcctcgaatt cgccgcctgt gatgatcttt catcgtttaa gagagagatc gaagagaatc 240

catcggtgga gattgatgag tcagggtttt ggtattgcag acgggtcggg tctaagaaga 300

tgggttttga agaaagaaca ccacttatgg ttgctgctat gtatggaagc atggaagtgt 360

tgaattacat aattgccaca ggaagatccg atgtgaacag 400

<210> 3367
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D6

<400> 3367

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acttctcaga ttcagctctt atggatcatt tgttacaaca ccaggatgtt tttgggaatt 120

ataacaaagc aagagaagca atgggactat catattcatc aaacccaaca ccgttagata 180

acgaccagaa gaaaccttct cctgcaacgg ctgtgacaag gccacagcct ccggagctag 240

ctctcaggtg tccacgttgc gactcaacan acacaaagtt ttgttactac aacaactaca 300

gtctcactca gcctcgctac ttctgcaaat catgccggag atattggact aaaggtggaa 360

ctctaaggaa catccccgtg ggtggaggct gccggaaaaa caaacgatcc acatcttcgg 420

ctgcaagaag cctcagaacc a 441

<210> 3368
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-C6

<400> 3368

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tttgaacatc agggattaat tactgtaatt gaagctcaca tcatggacca tcatcagtat 120

catcatcatg atcaatacca acatcagatg atgactagta ctaacaataa ttcctataac 180

accatcgtca caacacaacc accatcaaca acaacaacaa tggattcaac aacagcaata 240

actatgataa tggatgacga taagaagttg atgacgacaa tgagcactag gccgcatgaa 300

ccaagagact gtccaagatg caactcaagc aacaccaagt tttgttatta caagaactac 360

agcttagcac agcctatgta catgtgtaag tcctgtcgga gatattggac t 411

<210> 3369
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-C10

<400> 3369

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aaaagggtct gattcgtttg ttttttcact gaagaatttg gaaggaagtg attccgttgt 120

gaaacataaa agaagtatgg gtactcacat tgatatcaac aacttaggcg gcgatacttc 180

tagagggaat gagtcaaagc cattggcgag gcagtcttcg ttatattcct taacgtttga 240

tgagcttcag agcacattag gtgagccggg gaaagatttt gggtctatga atatggatga 300

gttactcaag aacatatgga ctgctgagga tactcaagcc tttatgacta ctacatcttc 360

ggttgcagcc ccgggaccta gtggttttgt tccgggagga aatggttt 408

<210> 3370
<211> 413

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-C5

<400> 3370

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agccaaaaca cttggccaca atgaatccat ggccgatgat atcttacaga tcttctccaa 120

cttcgacggc agattttctc gcgagaagct cgccgaaggt caagctggag aagatggatc 180

cggagtcgcc acactcgagc gagctctaaa ttcaatagac ggtcagatct ctcgctttgt 240

tgctgcggac caaccaattt gggctgatcc tgcagattca gctgctttcc tcgacacaat 300

cgatgagctc gttgcaatca ttagagagtg gagtcncatg gcttcagaga aacctatcgg 360

catctgtcta acacgcgccg acgatatgat gcagcaagct atgttccgca tcg 413

<210> 3371
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-A1

<400> 3371

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aatttgatcg tcctgaattc atcgtcctat ttaaggtttc gatcacaatc tgaagaggat 180

gtcatggacg tttctgctaa aaagtcacaa aaagctgggc gcgaaaagtt gaggagggaa 240

aaactgaatg agcattttgt tgaactggga aatgtactcg atccagagag acccaagaat 300

gacaaagcca cgattctgac tgatactgtt cagttgttga aagagctcac atctgaagtc 360

aacagactga aatctgagta caacgcattg acagatgagt cccgcgagtt gacaca 416

<210> 3372
<211> 171
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-C10

<400> 3372

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aacggagccg atccgacaga gttcggacct tattaacaag gttcgaagtc atttcaattt 120

cgaccgcgga gctggagagt tatcgggtct taagtggaag cttgacccgg a 171

<210> 3373
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D8

<400> 3373

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attcgggtca aacacaattc gaaaacaaaa gaaagaggtc gatggttttg aacgaagata 120

aagttctatc attcggagat aaaaccgccg gagaatcaga tcactccgat ctagaagctt 180

ccgtcgtgaa agaagtagca gtagagaaac gtccaaagaa acgaggaaga aagccagcaa 240

acggtagaga agagccacta aaccacgtcg aagcagagag acaaagacgc gagaaactaa 300

accaaagatt ctacgcgtta cgagcggttt gtacaaacgt ttcaaaaatg gataaagctt 360

cgttactcgg tgacgcaatc gcttacatca acgagcttaa atcanagtag tcaaaacaga 420

<210> 3374
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-F9

<400> 3374

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ctcttaacgt gatcataacg tgattcgaaa attggatata gataggtttc ttgttggatc 120

ttgatccctc tggaaaagga ggggagaata gcagttcatg atgggatttt gtatctgccc 180

gttggagtca cctgcgagat tactatggag tacaagcttc ttccgccata agatcatgat 240

cttctaatcc ttcctacttc ttcccatctt tttaatcatc ttctcgctat ctctgcttcc 300

tctttctctc tgtttcctct ttctcagaac tcagaagtag ttgttgtttt atttctgttg 360

atcaaaaatg gaatccaatt cgtttttctt cgatccatct gcttcacacg 410

<210> 3375
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-C4

<400> 3375

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agtctcctcg ttttgttcat gttgttgttc aagtgaagaa gctcaattat gtttacaaca 120

ttgttgtaat ttcaaaactt cataagaatt tctctgataa taaagaaaaa gctggagtag 180

aactatttta aagtgtcatc atgaagagac taagcagctc agattcaatg tgtggtctaa 240

tctccacttc tacagatgaa cagagtccaa gagggtacgg aagtaattac caatctatgc 300

ttgaaggtta cgatgaagat gctacactaa tcgaggaata ttccgggaac caccaacaca 360

tgggtctatc ggagaagaag agaagattaa 390

<210> 3376
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-D3

<400> 3376

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tattaattct caagatctta aagattatat taatacgaag agaaaattca aatgggtctt 120

gatgattcat gcaacacagg tcttgttctt ggtttaggcc tctcaccaac gcctaataat 180

tacaatcatg ccatcaagaa atcttcctcc actgtggacc atcgtttcat caggctcgat 240

ccgtcgttga ctctaagcct atccggtgag agctacaaga tcaagactgg tgccggcgcc 300

ggcgaacaaa tttgccggca gacctcgtcc cacagcggca tctcatcttt ctcgagcgga 360

agggtaaaga gagaaagaga aatctccggg ggggatggga aaaaagaggc gggagagaag 420

acggat 426

<210> 3377
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H9

<400> 3377

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gatcggagaa actcgcagga cttatcccac tgttgaaata cctccatggc cggtacttga 120

agagcttaca acgtcggagt ttttttttct ccggtgatga atagtccaga ttgtagcatg 180

cttgaagctt tggcggggtt gcagcgttat ttgccgtcta acgaaccgga tccggagtca 240

tacccggatc tattgggtcc ggattcacca atcgatgctt actcatgcga ccatttccgt 300

atgtacgatt tcaaagtcag gaggtgtgct cgtggccgga gtcatgattg gacggagtgt 360

ccgtacgctc atcncggaga aaaagctcgc cggag 395

<210> 3378
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-G5

<400> 3378

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ttatattaat acgaagagaa aattcaaatg ggtcttgatg attcatgcaa cacaggtctt 120

gttcttggtt taggcctctc accaacgcct aataattaca atcatgccat caagaaatct 180

tcctccactg tggaccatcg tttcatcagg ctcgatccgt cgttgactct aagcctatcc 240

ggtgagagct acaagatcaa gactggtgcc ggcgccggcg accaaatttg ccggcagacc 300

tcgtcccaca gcggcatctc atctttctcg agcggaaggg taaagagaga aagagaaatc 360

tccggcggcg atggagaaga agaggcggag gagacgacgg agagagtggt gtgttcg 417

<210> 3379
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-F10

<400> 3379

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gattatatta atacgaagag aaaattcaaa tgggtcttga tgattcatgc aacacaggtc 120

ttgttcttgg tttaggcctc tcaccaacgc ctaataatta caatcatgcc atcaagaaat 180

cttcctccac tgtggaccat cgtttcatca ggctcgatcc gtcgttgact ctaagcctat 240

ccggtgagag ctacaagatc aagactggtg ccggcgccgg cgaccaaatt tgccggcaga 300

cctcgtccca cagcggcatc tcatctttct cgagcggaaa ggtaaagaga gaaagagaaa 360

tctccggcgg cgatggagaa ga 382

<210> 3380
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D10

<400> 3380

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aggacaccct gacaagcttt gcgaccagat ctctgatgca gtccttgatg cctgccttga 180

gcaagaccct gatagcaaag ttgcttgtga gacatgcacc aagaccaaca tggtcatggt 240

tttcggtgag atcaccacca aggctacgat tgactacgag aagattgtcc gtgacacttg 300

ccgttccatt ggattcatct ctgacgatgt tggtcttgat gctgacaaat gcaaagtcct 360

tgttaacatt gaacaacaga gcccagacat tgctcaaggt gttcacggtc actttcacaa 420

acgtcnagaa gacattggag ctgg 444

<210> 3381
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-E12

<400> 3381

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gacaagcttt gcgaccagat ctctgatgca gtccttgatg cctgccttga gcaagaccct 180

gatagcaaag ttgcttgtga gacatgcacc aagaccaaca tggtcatggt tttcggtgag 240

atcaccacca aggctacgat tgactacgag aagattgtcc gtgacacttg ccgttccatt 300

ggattcatct ctgacgatgt tggtcttgat gctgacaaat gcaaagtcct tgttaacatt 360

gaacaacaga gcccagacat tgctcaaggt gttcacggtc acttcaccaa acgtccagaa 420

g 421

<210> 3382
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C9

<400> 3382

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ctgtgaacga aggacaccct gacaagcttt gcgaccagat ctctgatgca gtccttgatg 180

cctgccttga gcaagaccct gatagcaaag ttgcttgtga gacatgcacc aagaccaaca 240

tggtcatggt tttcggtgag atcaccacca aggctacgat tgactacgag aagattgtcc 300

gtgacacttg ccgttccatt ggattcatct ctgacgatgt tggtcttgat gctgacaaat 360

gcaaagtcct tgttaacatt gancancaga gcccagacat tgctcaaggt gttcacggtc 420

acttcaccaa ac 432

<210> 3383
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-E1-F11

<400> 3383

tcacaaccca gcacgatgaa accgttacca atgacgagat tgcgcgtgac ctcaaggagc 60

atgtgatcaa accaatcatc ccagataaat accttgacga caaaaccatc ttccacctca 120

acccatcagg ccggtttgtg atcgggggac cacacggtga tgctggatta actggacgta 180

agatcatcat tgacacatac ggaggatggg gagctcatgg acgtggtgct ttctcatgca 240

cagacccaac cagagtctac agaagtggag cttacatcgt gatgcatgca acatagagtg 300

tcgtggctaa tagcatggct cgcagggctc gtgtccatgt ctcatacgcc attggagtac 360

ccgatccatt gtctgtcgtc gatgtcactt gcggaagatg gttgattcca gacgaggata 420

tcctgatgat cgtggaggag acattcgatt tcataccagc gactgatgac aatc 474

<210> 3384
<211> 663
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F11

<400> 3384

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atgtgatcaa accaatcatc ccagagaaat accttgacga caaaaccatc ttccacctca 120

acccatcagg ccggtttgtg atcgggggac cacacggtga tgctggttta actggacgta 180

agatcatcat tgacacatac ggaggatggg gagctcatgg aggtggtgct ttctcaggca 240

aagacccaac caaagtcgac agaagtggag cttacatcgt gaggcaagca gcaaagagtg 300

tggtggctaa tggcatggct cgcagggctc ttgtccaggt ctcatacgcc attggagtac 360

ccgagccatt gtctgtcttc gttgacactt acggaacagg gttgattcca gacaaggaga 420

tcctgaagat cgtgaaagag acattcgatt tcagaccagg aatgatgaca atcaacttgg 480

acttgaagag aggaggaaat ggaaggtttc agaaaacggc agcgtatgga catttcggaa 540

gagacgaccc tgacttcacc tgggaggtcg tgaagccact caagtgggac aaacctcaag 600

cttaaacttg atttatgtnt cttctgtctt ttactttaaa catctaccat ggaccaataa 660

tca 663

<210> 3385
<211> 467

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-G6

<400> 3385

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tcggaaaaat ggaatctttt ttgttcacat ctgaatccgt caacgaggga catcccgaca 120

agctttgtga tcagatctcc gacgctatcc tcgatgcttg ccttgaacaa gaccctgaga 180

gcaaagttgc ttgtgagact tgtaccaaga ctaacatggt catggttttt ggagaaatca 240

ccaccaaggc taacgttgat tacgagcaga ttgttcgtaa aacatgccgt gagattggat 300

tcgtctctgc tgacgttggt ctagatgctg acaattgcaa ggttctggtt aacattgagc 360

aacagagtcc tgacattgca caaggtgttc atggtcatct caccaagaag ccagaggagg 420

ttggagctgg tgaccaaagt cacatgtttg ggtatgctac tgatgag 467

<210> 3386
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-049-Q1-E1-A1

<400> 3386

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ttgtcatcgg agggcctcat ggtgatgctg gacttacagg gaggaagatc atcattgaca 180

cttatggtgg ttggggtgct catggtggag gtgccttctc aggaaatgac ccaagcaatg 240

ttgacagaaa cggtgcctat atcgtgaggc acgctgcaaa gagcgtggta gcagcacgac 300

tcgcacgccg ttgtatcgtg caggtgtcat acgccattgg tgtcgctgag ccgctctcaa 360

tgtttgttga cacctacaag accgggacca tcccatacaa tgatatcctt gtgttgataa 420

aggaatc 427

<210> 3387
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-015-Q1-E1-G12

<400> 3387

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ttatccctgc taagtacctt gacgataaca ccatctttca cttgaaccca tctggtcgtt 120

ttgtcatcgg atggcctcat ggtgatgctg gacttacagg gaggaagatc atcattgaca 180

cttatggtgg ttggggtgct catggtggag gtgccttctc aggaaaggac ccaaccaagg 240

ttgacagaag ctgtgcctat atcgtgaggc aggctgcaaa gagcgtggta gcagcaggac 300

tcgcacgccg ttgtatcgtg catgtatcat acgccattgg tgtccctgag ccgctctcag 360

tgtttgttga cacctacacg accgggacca t 391

<210> 3388
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-A12

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atctgaatcc gtcaacgagg gacatcccga caagctttgt gatcagatct ccgacgctat 120

cctcgatgct tgccttgaac aagaccctga gagcaaagtt gcttgtgaga cttgtaccaa 180

gactaacatg gtcatggttt ttggagaaat caccaccaag gctaacgttg attacgagca 240

gattgttcgt aaaacatgcc gtgagattgg attcgtctct gctgacgttg gtctagatgc 300

tgacaattgc aaggttctgg ttaacattga gcaacagagt cctgacattg cacaaggtgt 360

tcatggtcat ctcaccaaga agccagagga ggttggagct ggtgaccaag gtcacatgtt 420

tgggtatgct actgatg 437

<210> 3389
<211> 332
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-F6

<400> 3389

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cagtcatatg gaatcttttt tggtcacatc tgaatccgtc aacgacggac atcccataca 120

agctttgtga tcaaatccct aacaccaccc tcgatgcgat ccttgaacag gatcctgata 180

gcaaaattgc ttgtaatact tgtaccatga cgaccatggt catggcattt ggagaaatca 240

acaccacggc taactttgat gacaaataga ttgttcgttc agtatgctgt catattggaa 300

tcgactcagc tgacgtaggt caatatgctg ac 332

<210> 3390
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-D5

<400> 3390

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aactcaacag aaatgcaagg cttgtgagaa gactgtttat gctgttgagc ttctctctgc 180

tgatggagtt ggatatcaca agtcttgctt caaatgcact cactgcaaaa gcaggcttca 240

gctgagtagt tactcatcaa tggaaggtgt tttgtactgt aagcctcatt ttgagcagct 300

ctttaaggag agtggtagtt tcaacaagaa ctttcagtca ccctgcaaaa tcggctgac 359

<210> 3391
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-F10

<400> 3391

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caaggagagg gtgagaaaca gaagaagaag gtgagaaaag tgaacgcaag gctttgagga 180

tgtcttttac aggaactcaa cataaatgca aggcttgtga gaagactgtt tatgctgttg 240

agcttctctc tgctgatgga gttggatatc agaagtcttg cttcaaatgc actcactgca 300

taagcaggct tcagctgagt agttactcat caatggaagg tgttttgtac tgtaagcctc 360

at 362

<210> 3392
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-G7

<400> 3392

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ccggcggaaa cttctacaga tgctacagag acgacgattg caacgacgga agctggtgaa 180

gcaccggaga agaaggtgag gaaagcttac acaatcacca agtctagaga gagttggact 240

gaaggagaac acgacaagtt tctggaagct cttcaattgt ttgatcgtga ctggaaaaag 300

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tttctaaaag tccaaaacaa tgggaatt 388

<210> 3393
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-H2

<400> 3393

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ctgacaagct ttgcgaccag atctctgatg cagtccttga tgcctgcctt gagcaagacc 180

ctgatagcaa agttgcttgt gagacatgca ccaagaccaa catggtcatg gttttcggtg 240

agatcaccac caaggctacg attgactacg agaagattgt ccgtgacact tgccgttcca 300

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ttgaacaaca gagcccagac attgctcaag gtgttcac 398

<210> 3394
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-D10

<400> 3394

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catctcttgg ttccttgatc tcttcaacta ctatgtcaat tctgaggaac acgagctttt 180

tagcaaagaa ttgcagcttg attccaaggt gttttacttc gatatcggtg agaacagaag 240

aggacgcttc ttgaaggtgt cagaagcatc ggttagtaga aatcgaagta ccattattgt 300

tccagctgga agctctcctg atgaaggatg ggcagctttc aggaatatat tggctgagat 360

acatgaagca tcaggacttt ttgtgatgcc aaatcagaaa ccttctgatg gacaggaaca 420

ct 422

<210> 3395
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-E11

<400> 3395

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ctaaagtttg ataaaacatt ccaaaatcaa tggctgatag gatcaaaggt ccatggagtc 120

ctgaagaaga cgagcagctt cgtaggcttg ttgttaaata cggtccaaga aactggacag 180

tgattagcaa atctattccc ggtagatcgg ggaaatcgtg tcgtttacgg tggtgcaacc 240

agctttcgcc gcaagttgag catcggccgt tttcggctga ggaagacgag acgatcgcac 300

gtgctcacgc tcagttcggt aataaatggg cgacgattgc tcgtcttctc aacggtcgta 360

cggacaacgc cgtgaagaat cactggaact cgacgct 397

<210> 3396
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-D11

<400> 3396

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tgatcgccga atctcataat ctcccatcga agcagaatgg agacttttct attcacatct 120

gagtctgtaa acgagggaca cccagacaag ctctgtgacc agatctctga tgcagtcctc 180

gatgcctgcc ttgaacaaga ccctgacagg aaagttgctt gtgagacatg caccaagacc 240

aatatggtca tggtctttgg tgagatcact accatcgcta ctgttgacta cgagaagatt 300

gtccgtgaca cctgtcgcgc cattggattt gtctctgatg atgttggtct tgatgctgac 360

aaatgcacag tcctagtcaa cattgagcaa cagagccaga cattgctc 408

<210> 3397
<211> 319
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F1

<400> 3397

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cttcttcgag atctgatcgc cgaatctcat aatctcccat cgaagcagaa tggagacttt 120

tctattcaca tctgagtctg taaacgaggg acacccagac aagctctgtg accagatctc 180

tgatgcagtc ctcgatgcct gccttgaaca agaccctgac agcaaagttg cttgtgagac 240

atgcaccaag accaacatgg tcatggtctt tggtgagatc actnaccaag ctactgttga 300

ctacgagaaa gattgtccg 319

<210> 3398
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-D12

<400> 3398

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tcttcttcga gatctgatcg ccgaatctca taatctccca tcgaagcaga atggagactt 120

ttctattcac atctgagtct gtaaacgagg gacacccaga caagctctgt gaccagatct 180

ctgatgcagt cctcgatgcc tgccttgaac aagaccctga cagcaaagtt gcttgtgaga 240

catgcaccaa gaccaacatg gtcatggtct ttggtgagat cactaccaag gctactgttg 300

actacgagaa gattgtccgt gacacctgtc gcgccattgg atttgtctct gatgatgttg 360

gtcttgatgc tgacaaatgc aaagtcctag tcaacattga gcaacag 407

<210> 3399
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A7

<400> 3399

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gatctgatcg ccgaatctca taatctccca tcgaagcaga atggagactt ttctattcac 120

atctgagtct gtaaacgagg gacacccaga caagctctgt gaccagatct ctgatgcagt 180

cctcgatgcc tgccttgaac aagaccctga cagcaaagtt gcttgtgaga catgcaccaa 240

gaccaacatg gtcatggtct ttggtgagat cactaccaag gctactgttg actacgagaa 300

gattgtccgt gacacctgtc gcgccattgg atttgtctct gatgatgttg gtcttgatgc 360

tgacaaatgc aaagtcctag tcaacattga gcaacagagc ccagacattg ctcaaggagt 420

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ctgacaaatg caaagtccta gtcaacattg agcaacagag cccagacatt gctcaaggag 180

ttcacggtca cttcaccaaa tgtcctgaag aaattggagc cggtgaccat gggcacatgt 240

ttggttatgc cactgatgaa atccctgagt taatgcccct gatccatgtt cttgccacca 300

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a 361

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<223> Clone ID: LIB22-032-Q1-E1-D5

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cgagggacac ccagacaagc tctgtgacca gatctctgat gcagtcctcg atgcctgcct 180

tgaacaagac cctgacagca aagttgcttg tgagacatgc accaagacca acatggtcat 240

ggtctttggt gagatcacta ccaaggctac tgttgactac gagaagattg tccgtgacac 300

ctgtcgcgcc attggatttg tctctgatga tgttggtctt gatgctgaca aatgcaaagt 360

cctagtcaac attgagcaac agagcccaga cattgc 396

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<223> Clone ID: LIB22-050-Q1-E1-D9

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tattcacatc tgagtctgta aacgagggac acccagacaa gctctgtgac cagatctctg 180

atgcagtcct cgatgcctgc cttgaacaag accctgacag caaagttgct tgtgagacat 240

gcaccaagac caacatggtc atggtctttg gtgagatcac taccaaggct actgttgact 300

acgagaagat tgtccgtgac acctgtcgcg ccattggatt tgtctctgat gatgttggtc 360

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<223> Clone ID: LIB22-005-Q1-E1-A9

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gacaccctga caagctttgc gaccagatct ctgatgcagt ccttgatgcc tgccttgagc 180

aataccctga tagcaaagtt gcttgtgaga catgcaccaa gaccaacatg gtcatggttt 240

tcggtgagat caccaccaag gctacgattg actacgacaa gattgtccgt gacacatgcc 300

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ttaacattga acaacaga 378

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<223> Clone ID: LIB22-071-Q1-E1-A5

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gagttgcttg tgagacatgc accaagacca acatggtcat ggttttcggt gagatcacca 240

ccaaggctac gattgactac gagaagattg tccgtgacac ttgccgttcc attggattca 300

tctctgacga tgttggtctt gatgctgaca aatgcaaagt ccttggtaac attgaacagc 360

agagcccaga cattgctcaa ggtgttcacg gtca 394

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<212> DNA
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<223> Clone ID: LIB22-035-Q1-E1-C11

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agactttcct attcacatct gagtctgtga acgaaggaca ccctgacaag ctttgcgacc 180

agatctctga tgcagtcctt gatgcctgcc ttgagcaaga ccctgatagc aaagttgctt 240

gtgagacatg caccaagacc aacatggtca tggttttcgg tgagatcacc accaaggcta 300

cgattgacta cgagaagatt gtccgtgaca cttgccgttc cattggattc atctctgacg 360

atgttggtct tgatgctgac aaatgcaaag tccttgttaa cattgaacaa cagagcccag 420

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<223> Clone ID: LIB22-063-Q1-E1-C10

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acaccctgac aagctttgcg accagatctc tgatgcagtc cttgatgcct gccttgagca 180

agaccctgat agcaaagttg cttgtgagac atgcaccaag accaacatgg tcatggtttt 240

cggtgagatc accaccaagg ctacgattga ctacgagaag attgtccgtg acacttgccg 300

ttccattgga gtcatctctg acgatgttgg tcctgatgct gacaaatgca aagtccttgt 360

taacattgaa catcagagcc cagacattgc 390

<210> 3407
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<212> DNA
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<223> Clone ID: LIB22-015-Q1-E1-D12

<400> 3407

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tctctaatcg ccgcagcttt aagaaatgga gactttccta ttcacatctg agtctgtgaa 120

cgaaggacac cctgacaagc tttgcgacca catctctgat gcagtccttg atgcctgcct 180

tgagcaagac cctgatagca aagttgcttg tgagacatgc accaagacca acatggtcat 240

ggttttcggt gagatcacca ccaaggctac gattgactac gagaagattg tccgtgacac 300

ttgccgttcc attggattca tctctgacga tgttggtctt gatgctgaca aatgcacagt 360

ccttgttaac attgaacaac agagcccata cattgct 397

<210> 3408
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<212> DNA
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<223> Clone ID: LIB22-023-Q1-E1-A1

<400> 3408

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gacaccctga caagctttgc gaccagatct ctgatgcagt ccttgatgcc tgccttgagc 180

aagaccctga tagcaaagtt gcttgtgaga catgcaccaa gaccaacatg gtcatggttt 240

tcggtgagat caccaccaag gctacgattg actacgagaa gattgtccgt gacacttgcc 300

gttccattgg attcatctct gacgaagttg gtcttgatgc tgacaaatgc aaagtccttg 360

gtaacattga acaacagagc ccagacattg ctcaaggtgt tcacggtcac 410

<210> 3409
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<223> Clone ID: LIB22-026-Q1-E1-B1

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taatcgccgc agctttaaga aatggagact ttcctattca catctgagtc tgtgaacgaa 120

ggacaccctg acaagctttg cgaccagatc tctgatgcag tccttgatgc ctgccttgag 180

caagaccctg atagcaaagt tgcttgtgag acatgcacca agaccaacat ggtcatggtt 240

ttcggtgaga tcaccaccaa ggctacgatt gactacgaga agattgtccg tgacacttgc 300

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gttaacattg aacaacagag cccagacatt gctcaaggtg tt 402

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<223> Clone ID: LIB22-004-Q1-E1-F4

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gaagaaattg gagccggtga ccaagggcac atgtttggtt atgccactga tgaaacccct 180

gagttaatgc ccctgagcca tgttcttgcc accaagctcg gtgctcgcct aacagaagtc 240

agaaagaatg gtacttgcgc ctggctaaga cctgacggca aaacccaagt cactgttgag 300

tactacaatg acaagggtgc catggtccca atccgtgtcc acacagtcct catctccacc 360

caacacgatg aaactgtgac caacgacgaa attgcccgtg acct 404

<210> 3411
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<212> DNA
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<223> Clone ID: LIB22-004-Q1-E1-E8

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ctctctactt ccttcaacag aaatggaaac gttcctattt acctctgaat ccgtcaatga 180

aggacaccca gacaagcttt gtgaccagat ttctgatgcg atccttgatg cttgcttaga 240

gcaagatcct gaaagcaaag tggcgtgtga gacatgcacc aagaccaaca tggtgatggt 300

gtttggtgag atcactaccg ctgcgaaagt tgactatgag aagattgtta gatccacttg 360

cagggagatt ggttttatct ctgctgatgt tggtcttgac gctgacaaat gcaatgtttt 420

gg 422

<210> 3412
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3412

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agaagtacct agacgagaaa accatcttcc acttgaaccc ttcaggccga ttcgtcatcg 180

gtggacccca tggagacgct ggtctcaccg ggcgtaagat catcatcgac acttacggtg 240

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nggctcttgt tcaggtctca tacgccattg gagtccctga 400

<210> 3413
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-C11

<400> 3413

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ctatcccacc acttctaaag ctggctggtg agctctctct gagtgtcaag tctgtgaagt 180

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ccagcaactg caacaacaat gtctacactc tcgagatgtg catgactggt ctggaca 417

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<212> DNA
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<223> Clone ID: LIB22-005-Q1-E1-A7

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gcttgatgaa attcttacac ctgctgcatg cacgatcgtt tcatctctct ccaacgatca 180

attggactct tacgtactct ctgagtccag cttctttgtc tacccctaca aagtcatcat 240

caagacttgc ggtaccacta agctcctcct ctctatccca ccacttctaa agctggctgg 300

tgagctctct ctgagtgtca agtctgtgaa gtacactcgc ggctccttcc tctgccccgg 360

aggctagcct tttcctcacc gcagcttctc tgaagaagtc tctgttcttg atgggcactt 420

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<211> 434
<212> DNA
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<223> Clone ID: LIB22-042-Q1-E1-E5

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aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata tataaaagcg 180

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gcaccgatct tcataatata gttatagctt tctttacttt ccagtttata attttcctct 420

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<211> 426
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<223> Clone ID: LIB22-041-Q1-E1-F12

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ttgatatctg gagaaagggg tttctggaaa caaggagttc ataattcgcg atcttgatct 180

atcgatcttc atttatatat aaaagcgtga atgagattat gatggagtcg aaaggtggta 240

aaaagaagtc cagcagtagt agttccttat tttacgaagc tcccctcggt tacagcattg 300

aagacgttcg tccaaacggt ggaatcaaga aattcaaatc ttctgtctac tcaaactgct 360

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<223> Clone ID: LIB22-050-Q1-E1-E6

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tatctggaga aaggggtttc tggaaacaag gagttcataa ttcgcgatct tgatctatcg 180

atcttcattt atatataaaa gcgtgaatga gattatgatg gagtcgaaag gtggtaaaaa 240

gaagtccagc agtagtagtt ccttatttta cgaagctccc ctcggttaca gcattgaata 300

cgttcgtcca aacggtggaa tcaagaaatt caaatcttct gtctactcaa actgctccaa 360

gaggccatcc tgagtaccag cgtgcaccga tcttcataat atagttatag ctttctttac 420

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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-E3

<400> 3418

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agtccagcag tagtagttcc ttattttacg aagctcccct cggttacagc attgaagacg 300

ttcgtccaaa cggtggaatc aagaaattca aatcttctgt ctactcaaac tgctccaaga 360

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<213> Arabidopsis thaliana

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acaagctttg tgaccagatt tctgatgcga tccttgatgc ttgcttagag caagatcctg 240

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tcactaccgc tgcgaaagtt gactatgag 329

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<212> DNA
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<223> Clone ID: LIB22-083-Q1-E2-D1

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tctacttcct tcaacagaaa tggaaacgtt cctatttacc tctgaatccg tcaatgaagg 180

acacccagac aagctttgtg accagatttc tgatgcgatc cttgatgctt gcttagagca 240

agatcctgaa agcaaagtgg cgtgtgagac atgcaccaag accaacatgg tgatggggtc 300

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ggggagaatg gttt 374

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<212> DNA
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<223> Clone ID: LIB22-076-Q1-E1-G8

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tttctggaaa caaggagttc ataattcgcg atcttgatct atcgatcttc atttatatat 180

aaaagcgtga atgagattat gatggagtcg aaaggtggta aaaagaagtc cagcagtagt 240

agttccttat tttacgaagc tcccctcggt tacagcattg aagacgttcg tccaaacggt 300

ggaatcaaga aattcaaatc ttctgtctac tcaaactgct ccaagaggcc atcctgagta 360

ccagcgtgca ccgatcttca taatatagtt atagctttct ttactttcca gtttataatt 420

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<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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cttccttcaa cagaaatgga aacgttccta tttacctctg aatccgtcaa tgaaggacac 180

ccagacaagc tttgtgacca gatttctgat gcgatccttg atgcttgctt agagcaagat 240

cctgaaagca aagtggcgtg tgagacatgc nacaagacca acatggtgat ggtgtttggt 300

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<210> 3423
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-G4

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gaaatggaaa cgttcctatt tacctctgaa tccgtcaatg aaggacaccc agacaagctt 180

tgtgaccaga tttctgatgc gatccttgat gcttgcttag agcaagatcc tgaaagcaaa 240

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gctgcgaaag ttgactatga gaagattgtt agatccactt gcagggagat tggttttatc 360

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<210> 3424
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<212> DNA
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<223> Clone ID: LIB22-082-Q1-E1-A11

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tctctacttc cttcaacaga aatggaaacg ttcctattta cctctgaatc cgtcaatgaa 180

ggacacccag acaagctttg tgaccagatt tctgatgcga tccttgatgc ttgcttagag 240

caagatcctg aaagcaaagt ggcgtgtgag acatgcacca agaccaacat ggtgatggtg 300

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<212> DNA
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<223> Clone ID: LIB22-004-Q1-E1-F9

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cctctctact tccttcaaca gaaatggaaa cgttcctatt tacctctgaa tccgtcaatg 180

aaggacaccc agacaagctt tgtgaccaga tttctgatgc gatccttgat gcttgcttag 240

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<210> 3426
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<212> DNA
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<223> Clone ID: LIB22-039-Q1-E1-H2

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caatctctct ccctctctac ttccttcaac agaaatggaa acgttcctat ttacctctga 180

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tgcttgctta gagcaagatc ctgaaagcaa agtggcgtgt gagacatgca ccaagaccaa 300

catggtgatg gtgtttggtg agatcactac cgctgcgaaa gttgactatg agaagattgt 360

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<223> Clone ID: LIB22-036-Q1-E1-F10

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tctacttcct tcaacagaaa tggaaacgtt cctatttacc tctgaatccg tcaatgaagg 180

acacccagac aagctttgtg accagatttc tgatgcgatc gttgatgctt gcttagagca 240

agatcctgaa agcaaagtgg cgtgtgagac atgcaccaag accaagatgg tgatggtgtt 300

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ggagattgga tttatctctg ctgatgttgg tcttgacgct ga 402

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-B12

<400> 3428

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gggtttctgg aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata 180

tataaaagcg tgaatgagat tatgatggag tcgaaaggtg gtaaaaagaa gtccagcagt 240

agtagttcct tattttacga agctcccctc ggttacagca ttgaagacgt tcgtccaaac 300

ggtggaatca agaaattcaa atcttctgtc tactcaaact gctccaagag gccatcctga 360

gtaccagcgt gcaccgatct tcataatata gttatagctt tctttacttt cc 412

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<213> Arabidopsis thaliana

<223> Clone ID: LIB22-007-Q1-E1-C9

<400> 3429

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatctttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg tgct 414

<210> 3430
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-B4

<400> 3430

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatctttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg tg 412

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C3

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttcagga gtactggtgg tgtaccgagc gtgctctaaa ttggg 415

<210> 3432
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3432

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tcgtctcgaa ctcgagctcg ccgaagttga gatgcctgga ctcatggctt gtcgtaccga 180

attcggacct tctcagccat tcaaaggcgc tagaatcacc ggatctcttc acatgaccat 240

ccaaaccgcc gtactcatcg aaaccctaac tgctctcggt gctgaagtca gatggtgttc 300

ctgcaacatc ttttccactc aagaccacgc cgccgcagcc atcgctcgtg actccgccgc 360

tgttttcgcc tggaaaggtg agactcctca ggagtactgg tggtgntacg agcgtgct 418

<210> 3433
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-D6

<400> 3433

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gaagacctca agtggccgtg aatacaaggt caaagacatg tctcaagccg atttcggtcg 120

tctcgaactc gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt 180

cggaccttct cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca 240

aaccgccgta ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg 300

caacatcttt tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt 360

tttcgcctgt aaaggtgaga ctcgtcatga gtactggtgg tgtaccgagc gtgctctaga 420

ttggggt 427

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E2

<400> 3434

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tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc 240

tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

tcgtgactcc gccgctgttt tcgcctggaa aggtgagact cttcaggagt actggtggtg 420

taccgagcgt gctctaga 438

<210> 3435
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-C11

<400> 3435

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caagccgatt tcggtcgtct cgaactcgag ctcgccgaag ttgagatgcc tggactcatg 180

gcttgtcgta ccgaattcgg accttctcag ccattcaaag gcgctagaat caccggatct 240

cttcacatga ccatccaaac cgccgtactc atcgaaaccc taactgctct cggtgctgaa 300

gtcagatggt gttcctgcaa catcttttcc actcaagacc acgccgccgc agccatcgct 360

cgtgactccg gcgctgtttt cgcctggaaa ggtgagactc ttcaggagta ctggtggtgt 420

accgagcgtg ctccagattg gggt 444

<210> 3436
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E1-G5

<400> 3436

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aagccgattt cggtcgtctc gaactcgagc tcgccgaagt tgagatgcct ggactcatgg 180

cttgtcgtac cgaattcgga ccttctcagc cattcaaagg cgctagaatc accggatctc 240

ttcacatgac catccatacc gccgtactca tcgaaaccct aactgctctc ggtgctgaag 300

tcagatggtg ttcctgcaac atcttttcga ctcaagacca tgccgccgca gccatcgctc 360

gtgactccgc cgctgttttc gcctggaaag gtgagactct tcaggagtac tggtggtgta 420

ccgagcgtgc tctagattgt ggtccaggtg gt 452

<210> 3437
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-F5

<400> 3437

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catggcgttg ctcgtcgaga agacctcaag tggccgtgaa tacaaggtca aagacatgtc 120

tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc 240

tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

tcgtgactcc gccgctgttt tcgcctggaa aggtgagact cttcaggagt actggtggtg 420

taccgagcgt gctctagatt ggggtcca 448

<210> 3438
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-E1-C4

<400> 3438

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tgtctgagga aactaccact ggtgttaaga ggctttacca gatgcagcaa aatggaactc 120

ttttgttccc tgccattaac gttaacgact ctgtcaccaa gagcaagttc gacaacttgt 180

atggttgccg tcactcactc cctgatggtc tcatgagggc cactgatgtc atgatcgctg 240

gaaacgttgc tgttatctgt ggatatggtg atgttggaaa gggttgtgct gctgccatga 300

agactgctgg tgctatagtc attgtgactg agattgatcc catctgtgcc cttcaagctt 360

tgatggaagg acttcatgtt cttacccttg acgatgttgt ctcagaagct gatatctttg 420

tcaccaccac cggtaacaaa gacatcatca t 451

<210> 3439
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F4

<400> 3439

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttcagga gtactggtgg tgtaccgagc gtgctctaga ttgnggtcca 420

agtggtggtc ctgatctg 438

<210> 3440
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-K1-C4

<400> 3440

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tcgtctgaga aactaccact ggtgttaaga ggctttacca gatgcagcaa aatggaactc 120

ttttgttccc tgccattaac gttaacgact ctgtcaccaa gagcaagttc gacaacttgt 180

atggttgccg tcactcactc cctgatggtc tcatgagggc cactgatgtc atgatcgctg 240

gaaaggttgc tgttatctgt ggatatggtg atgttggaaa gggttgtgct gctgccatga 300

agactgctgg tgctagagtc attgtgactg agattgatcc catctgtgcc cttcaagctt 360

tgatggaagg acttcaggtt cttacccttg aggatgttgt ctcagaagct gatatctttg 420

tcaccaccac cggtaacaaa gacatcatca tggtcgacca catgaggaag atgaagaaca 480

acgctattgt gtgcaacatt ggtcactttg acaatgagat tgacatgctt ggac 534

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-C1

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gacttcaggt tcttaccctt gaggatgttg tctcagaagc tgatatcttt gtcaccacca 180

ccggtaacaa agacatcatc atggtcgacc acatgaggaa gatgaagaac aacgctattg 240

tgtgcaacat tggtcacttt gacaatgaga ttgacatgct tggacttgag acttaccctg 300

gtgtgaagcg tatcaccatc aagccacaga ctgacaggtg ggtgttccca gagaccaagg 360

ctggaatcat tgtcttggct gagggtcgtc tgatgaactt gggttgtgcc actggtcacc 420

caagtttcgt gatgtcttgc tctttcacca accaggtgat 460

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<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3442

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gagggtgtta aagctgagga gatctttgag aagactggtc aagttcctga tcctacttct 180

actgataacc ctgagtttca gatcgtgttg tctattatca aggaaggtct tcaagttgat 240

cctaagaagt accacaagat gaaggagaga cttgttggtg tctctgagga aactaccact 300

ggtgttaaga ggctttacca gatgcagcan aatggaactc ttttgttccc tgccattaac 360

gttaacgact ctgtcaccaa gagcaagttc gacaacttgt atggttgccg tcactcactc 420

cctgatggtc tcatgagggc cactgatg 448

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<212> DNA
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<223> Clone ID: LIB22-023-Q1-E1-B10

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tgcaacattg gtcactttga caatgagatt gacatgcttg gacttgagac ttaccctggt 180

gtgaagcgta tcagcatcaa gccacagact gacaggtggg tgttcccaga gaccaaggct 240

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agtttcgtga tgtcttgctc tttcaccaac caggtgattg cccagctcga gctctggaac 360

gagaaagcaa gcggaaagta cgagaagaag gtgtacgtgc ttcccacgca tttgga 416

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E1-E11

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aagtggccgt gaatacaagg tcaaagacat gtctcaagcc gatttcggtc gtctcgaact 120

cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat tcggaccttc 180

tcagccattc aaaggggcta gaatcaccgg atctcttcac atgaccatcc aaaccgccgt 240

agtcatcgag aaccctaact gctctcggtg ctgaagtcag atggtgttcc tgcaagatct 300

tttccactca agaccacgcc gccgcaacca tcgctcgtga ctccgccgct gttttcgcct 360

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<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-D7

<400> 3445

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cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat tcggaccttc 180

tcagccattc aaaggcgcta gaatcagcgg atctcttcac atgaccatcc aaaccgccgt 240

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ttcgactcaa gaccacgccg ccggagccat cgctcgtgac tccgccgctg ttttcgcctg 360

gaaaggtgag actcttcagg agtactggtg gtgtaccgag cgtgct 406

<210> 3446
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-E10

<400> 3446

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tcgaaaccct aactgctctc ggtgctgaag tcagatggtg ttcctgcaac atcttttcca 180

ctcaagacca cgccgccgca gccatcgctc gtgactccgc cgctgttttc gcctggaaag 240

gtgagactct tcaggagtac tggtggtgta ccgagcgtgc tctagattgg ggtccaggtg 300

gtggtcctga tctgattgtt gatgatggtg gtgacgctac tcttttgatt catgagggtg 360

ttaaagctga ggagatcttt gagaagactg gtcaagttcc tgatcctac 409

<210> 3447
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-A6

<400> 3447

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaga ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcgtt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttc 376

<210> 3448
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A10

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gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat 180

tcggaccttc tcagccattc aaaggcgcta gaatcaccgg atctcttcac atgaccatcc 240

aaaccgccgt actcatcgaa accctaactg ctctcggtgc tgaagtcaga tggtgttcct 300

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ttttcgcctg gaaaggtgag actcttcagg agt 393

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<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E2-D10

<400> 3449

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttcaaga gtactggtg 389

<210> 3450
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-B3

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gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat 180

tcggaccttc tcagccattc aaaggcgcta gaatcaccgg atctcttcac atgaccatcc 240

aaaccgccgt actcatcgaa accctaactg ctctcggtgc tgaagtcaga tggtgttcct 300

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ttttcgcctg gaaaagtgag actcttcagg agtactggtg 400

<210> 3451
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H12

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tctcaagccg atttcggtcg tctcgaactc gagctcgccg aagttgagat gcctggactc 180

atggcttgtc gtaccgaatt cggaccttct cagccattca aaggcgctag aatcaccgga 240

tctcttcaca tgaccatcca aaccgccgta ctcatcgaaa ccctaactgc tctcggtgct 300

gaagtcagat ggtgttcctg caacatcttt tccactcaag accacgccgc cgcagccatc 360

gctcgtgact ccgccgctgt ttcgcctgg aaaggtgaga ctcttcagga gtactg 416

<210> 3452
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-G7

<400> 3452

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tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

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tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

tcgtgactcc gccgctgttt tcgcctggaa aggtgagact cttcaggagt actggtgg 418

<210> 3453
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-G5

<400> 3453

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ccgaagttga gatgcctgga ctcatggctt gtcgtaccga attcggacct tctcagccat 180

tcaaaggcgc tagaatcacc ggatctcttc acatgaccat ccaaaccgcc gtactcatcg 240

aaaccctaac tgctctcggt gctgaagtca gatggtgttc ctgcaacatc ttttccactc 300

aagaccacgc cgccgcagcc atcgctcgtg actccgccgc tgttttcgcc tggaaaggtg 360

agactcttca ggagtactgg tggtgtaccg agcgtgctct agattggg 408

<210> 3454
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-F10

<400> 3454

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ttgagatgcc tggactcatg gcttgtcgta ccgaattcgg accttctcag ccattcaaag 180

gcgctagaat caccggatct cttcacatga ccatccaaac cgccgtactc atcgaaaccc 240

taactgctct cggtgctgaa gtcagatggt gttcctgcaa catcttttcc actcaagacc 300

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ttcaggagta ctggtggtgt accgagcgtg ctctagattg ggg 403

<210> 3455
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-B6

<400> 3455

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ccctgccatt aacgttaacg actctgtcac caagagcaag ttcgacaact tgtatggttg 120

ccgtcactca ctccctgatg gtctcatgag ggccactgat gtcatgatcg ctggaaaggt 180

tgctgttatc tgtggatatg gtgatgttgg aaagggttgt gctgctgcca tgaagactgc 240

tggtgctaga gtcattgtga ctgagattga tcccatctgt gcccttcaag ctttgatgga 300

aggacttcag gttcttaccc ttgaggatgt tgtctcagaa gctgatatct ttgtcaccac 360

caccggtaac aaagacatca tcatggtcga acacattaag gagatgaaga ac 412

<210> 3456
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-A8

<400> 3456

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ctagctcaac catggcgttg ctcgtcgaga agacctcaag tggccgtgaa tacaaggtca 120

aagacatgtc tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc 180

ctggactcat ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa 240

tcaccggatc tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc 300

tcggtgctga agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg 360

cagccatcgc tcgtgactcc cgcgctgttt tcgcctggaa aggtgagact cctcaggagt 420

actggtggtg taccga 436

<210> 3457
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-E9

<400> 3457

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatcgttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg 410

<210> 3458
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-H1

<400> 3458

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tcgtcgagaa gacctcaagt ggccgtgaat acaaggtcaa agacatgtct caagccgatt 120

tcggtcgtct cgaactcgag ctcgccgaag ttgagatgcc tggactcatg gcttgtcgta 180

ccgaattcgg accttctcag ccattcaaag gcgctagaat caccggatct cttcacatga 240

ccatccaaac cgccgtactc atcgaaaccc taactgctct cggtgctgaa gtcagatggt 300

gttcctgcaa catcttttcc actcaagacc acgccgccgc agccatcgct cgtgactccg 360

ccgctgtttt cgcct 375

<210> 3459
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-A11

<400> 3459

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tggccgtgaa tacaaggtca aagacatgtc tcaagccgat ttcggtcgtc tcgaactcga 120

gctcgccgaa gttgagatgc ctggactcat ggcttgtcgt accgaattcg gaccttctca 180

gccattcaaa ggcgctagaa tcaccggatc tcttcacatg accatccaaa ccgccgtact 240

catcgaaacc ctaactgctc tcggtgctga agtcagatgg tgttcctgca acatcttttc 300

cactcaagac cacgccgccg cagccatcgc tcgtgactcc gccgctgttt tcgcctggaa 360

aggtgagact cttcaggagt actggtggtg taccgagcgt gctc 404

<210> 3460
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-H4

<400> 3460

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ctcgtcgaga agacctcaag tggccgtgaa tacaaggtca aagacatgtc tcaagccgat 120

ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat ggcttgtcgt 180

accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc tcttcacatg 240

accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga agtcagatgg 300

tgttcctgca acatcttttc cactcaagac cacgccgccg caagccatcg ctcgtgactc 360

cgccgctgtt ttcncccgga aanggggnaa ccctcaaggn ntacgggggg gtgttccgaa 420

nggtgcncaa aattggggtc aaggtggggg gcccngatt 459

<210> 3461
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3461

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gggatctaag ctcttttcat cgaacatgcc ttgctctact gttcctagac gcacaagaag 180

atcacactgc tttgcttctg ctaaagatat gagctttgac catatcccta aacaatttcg 240

tggagacaat ctcaaagacg gagtgatgca gaacttcaag aacgtaccac aatattttta 300

cgggcttaat tcagctcaaa tggatatgtt catgacagaa gatagccctg tccgtangca 360

agcgggaaaa agttacaaga gggaaagcat ctccgtccta aaaaataacn atttggaaaa 420

agggggggaa atagggatta ttccggg 447

<210> 3462
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3462

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agagagagag atttaaggaa ggaatcatgg caggggggtgg agctccagca cccaaagcag 180

acgaaccaca accacatcct cctaaagatc aacttcccaa catttcttat tgcatcacca 240

gtcctcctcc ttggcctgaa gctattcttc ttggattcca acattacctt gtgatgcttg 300

ggacaacggt gctcatacct actgctcttg ttccccagat gggaggtgga tatgaagaga 360

aagcaaaggt gattcaaact aatctctttg gttgccgggg atcaaaanaa tggnccaaaa 420

annntgtttc gggaaaaaaa tttnccg 447

<210> 3463
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-H9

<400> 3463

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cgcggtggcg gaagatgtgg agagaagcaa aaccacggtg ttatgggcgg cgcgtaactt 120

ttccggcaag aagatttgct tgctttatgt tcatcgaact gctcgcgctg cctcctggac 180

gcacaagaaa cttgttggtg gtagctttaa aaagcatgat gtcaaggtga ttgagcgagt 240

tgagaaaccc aaagtggatg aactgatgaa ttcttatctc caacttttat ctgaaactga 300

gattcaaaca gataaacttt gcattgcggg gcaaaatatc gaggaatgta tcgtagaact 360

aattgctcgg cacaaaatta aagttggtta gtaatgggga actgcatcaa at 412

<210> 3464
<211> 119
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-A5

<400> 3464

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agtggccgtg aatacaaggt caaagacaat tctcaaagcc gattccggcc tctcgaact 119

<210> 3465
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C5

<400> 3465

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aaaaggcgtt gttcgtcaag aagacctcaa gtggtcgtga atacagtgtc aaagacatgt 120

cacaagccga tatcggtcgt cacgaactcg agctcgccga agttgagatg cctggacaca 180

aggcttgtcg taacaaagtc agagcttctc agccagtcac aagcactata atcaccggat 240

ctcgtcacat gagcatccaa aacgacgtag tcaacgaaac ccgaaatgct ctcagtgctg 300

aagtcagatg gtgtacttgc aacaacgttt caagtcaaga acactccggc gcaggtatcg 360

ctcgagacac cgcagctg 378

<210> 3466
<211> 326
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-003-Q1-E1-E4

<400> 3466

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aagttgagat gcctggactc atgggctgtc gtaccgaatt cgggccttcg cagccattca 180

aaggcgctag aatcagcgga tctcttcaga tgacgatcaa aaccgccgta ctcatcgaaa 240

ccctaagctg ctctcggtgc tgaactcaga tggtgttcct gctagatcat ttccactcaa 300

gaccacgccg ccgctagcat cgctcg 326

<210> 3467
<211> 346
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-B2

<400> 3467

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gagatgcctg gactcatggc ttgtcgntac caaattcgga ccttccaagc aatcaaaagg 180

cgccagaatc aacgggtttc ctcaaaataa caaccaaaac ggcgttatca accaaaacct 240

aactggtccc ggtgccgaag tcaaatgggg gtcctggaac aacctttcca atcaagaaca 300

agccggcgga accatcgctc gtgactccgc cgctgttttc gcctgg 346

<210> 3468
<211> 188
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-C12

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ttgctcgtcg agaagacctc aagtggccgt gaatacaagg tcaaagacat gtctcaagcc 120

gatttcggtc gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt 180

cgtaccga 188

<210> 3469
<211> 275
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-040-Q1-E1-A8

<400> 3469

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ttacatgtca caatccgaat tctggcctct cgaagtcgag ctcccccaag ttgacatgcc 180

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caccagatct cttcacatga ccatccaaaa cggcg 275

<210> 3470
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-029-Q1-E1-A10

<400> 3470

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gaagacctca agtggccgtg aatacaaggt caaagacatg tctcaagccg atttcggtcg 120

tctcgaactc gagctcgccg aagttgagat gcctggactc atggcatgtc gtaccgaatt 180

cggaccttct cagccattca aaggcgctag aatcaccgga tctcttcaca tgatcatcca 240

gaccgccgta ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg 300

caacatcttt tccactcaag accactccgc cgcaaccatc gctcgtgact ccg 353

<210> 3471
<211> 348
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-073-Q1-E1-F7

<400> 3471

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cctcaagtgg ccgtgaatac aaggtcaaag acatgtctca agccgatttc ggtcgtctcg 120

aactcgagct cgccgaagtt gagatgcctg gactcatggc ttgtcgtacc gaattcggac 180

cttctcagcc attcaaaggc gctagaatca ccggatctct tcacatgacc atccaaaccg 240

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tcttttccac tcaagaccac gccgccggca gccatcgctc gtgactcc 348

<210> 3472
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-055-Q1-E1-B5

<400> 3472

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ccatggcgtt gctcgtcgag aagacctcaa gtggccgtga atacaaggtc aaagacatgt 120

ctcaagccga tttcggtcgt ctcgaactcg agctcgccga agttgagatg cctggactca 180

tggcttgtcg taccgaattc ggaccttctc agccattcaa aggcgctaga atcagcggat 240

ctcttcacat gaccatccaa accggcgtac tcatcgaaac cctaagtgct ctcggtgctg 300

aagtcacatg gtgttcctgc aacatctttt ccactcaaga ccaggcggcc gcagccatcg 360

ctcgtg 366

<210> 3473
<211> 346
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-F9

<400> 3473

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gttgagatgc ctggactcat ggcttgtcgt accgaattcg gaccttctca gccattcaaa 180

ggcgctagaa tcaccggatc tcttcacatg accatccaaa ccgccgtact catcgaaacc 240

ctaactgctc tcggtgctga agtcagatgg tgttcctgca acatcttttc cactcaagaa 300

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<210> 3474
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3474

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ttggattctg ataaggaaat gtctgcagct gttattgagg gaaatgacgc tgttactggt 180

catatcattt ccactactat tggaggcaaa aacggcgaac caaagcagac cattagttac 240

atggctgagc gggttgttgg aacaggttca ttcgggattg tttttcaggc gaaatgcttg 300

gaaactggag aatcagtagc cattaaaaag gtcttgcaag atcgacgcta taaaaaccgt 360

gagtttcaac taatggcgaa caaanggttt ncccaaatgt cancccctg aaancacngt 420

ttcttcccta naacgagtna nagatganct cttcctcaac cttgtttatg gagt 474

<210> 3475
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B11

<400> 3475

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aagtctcttg ttccctgcca ttaccctaaa cgacactgtc atcaagagca agttcgacaa 180

cttgtatggt tgccgtcact cactcgatga tggtctcaga aagggcactg atgtcatgat 240

agctggaaag gttgctatta tcagtggata tggtgatgtt ggaaagggtt ctgctgctgc 300

catgaatact gctggtgcta cagtcaatgt gactgatatt gatctcatct gtgcccttca 360

cgct 364

<210> 3476

<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-029-Q1-E1-F1

<400> 3476

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tcgtctcgaa ctcgagctcg ccgaagttga gatgcctgga ctcatggctt gtcgtaccga 180

attcggacct tctcagccat tcaaaggcgc tagaatcacc ggatctcttc acatgaccat 240

ccaaaccgcc gtactcatcg aaaccctaac tgctctcggt gctgaagtca gatggtgttc 300

ctgcaacatc ttttccactc aagaccacgc cgccgcagcc atcgctcgtg actccgccgc 360

tgttt 365

<210> 3477
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-G5

<400> 3477

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aagccgattt cggtcgtctc gaactcgagc tcgccgaagt tgagatgcct ggactcatgg 180

cttgtcgtac cgaattcgga ccttctcagc cattcaaagg cgctagaatc accggatctc 240

ttcacatgac catccaaacc gccgtactca tcgaaaccct aactgctctc ggtgctgaag 300

tcagatggtg ttcctgcaac atcttttcca ctcaagacca cgccgccgca gccatcgctc 360

gtgactccgc cgctgttt 378

<210> 3478
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G7

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ttcaaaatgg ttcatctcaa agaatgcaat tgtctcaggg ctactcggga agaagcaaga 180

anattcantt tcagattctc cacctccaaa ggctcggcga aaaaggatag tgaggaagaa 240

ggtggctgca tctgcctctt aaataaccaa catnacctct aaaatgtcac aattttcana 300

gtccatggaa gaacaacagt gaggttttgt tgttcatttg aggcacacat gacaaaggtt 360

ttgttgccat angaaggaag aagggatcac caaactttgg aggaattgaa aaaaagctcn 420

atag 424

<210> 3479
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3479

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agtagcctta gtttcagcaa agattttgat cgtgatttac ttgttcctgt cacatccaag 180

aagatgaagc agcttgattc tggttcttcc acttctctca tcgaagttct cganttgaag 240

gtaacattca tgggagagag gacaatggtg gtgagtgtaa catgtaataa gaggacagat 300

acaatggtga aactgtgtga agtctttgag tcattgaatc tcaaaatcct cacttccaat 360

ctcacctctt tctctgggca tgatcttcca cactgtcttt attgaggcgg atgaagaaga 420

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<210> 3480
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G9

<400> 3480

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gagaggntta atttgttgaa gcttgctcct ggtggtcacc ttggtcggtt tgtgatctgg 180

accaagtctg cctttgagaa gcttgagtct atctatggtt cgtttgagaa gccatcagag 240

aagaanaagg ggtatgtgct tcctcgtgca aagatggtga atgctgatct tgccaggatt 300

atcaattcag atgagattca gagtgttgtg aatccgatca acaangatgc gaagagggct 360

gttcttaaga agaatccatt gaaagaaatc tcaatgtgat gttgaagttg aatcccttat 420

gccaaagaac cgcgaaagan gatgtcact 449

<210> 3481
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H11

<400> 3481

gtacngctcc agaattccca aggtcgacga nctcanncna aantccctaa atttgccctc 60

atttccctct gattagatcc cttancccga caaagacacn acaattcttg anggcgacag 120

agctgattga tgtctttggt atctggagcc agggacangg ggttnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnggatgg agatgatgng aactcctcct ccagaacaag agccgacnac 240

gatgctcnta gtcgacanat gancgaatct tctctttgtg ctaccgagga ggaagaagac 300

gacgattcca aattgcaatt gggtcctcag tacactatca ngagaacatc tcgagaagga 360

caangatgat tagagtctga ngaaatggaa ggaacagctt ctcggaagtg ttgatgtcac 420

caacattggg gagactcttg attcgggaag tn 452

<210> 3482
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H2

<400> 3482

acgcgtccgn ccacgcgtcc ggctggttct aaacctgaga tccttcttgc tatgagctgc 60

ttgtgtaaag gtagccctga tgcctttctt gtgtgcaatg gattcaaaga tgctgagtat 120

atatcattgg ctctgcttgg gagaaaactg gcgttgaata ctgtgattgt gcttgagcaa 180

gaagaagagc ttgatctggt tattgagctg agccagaaga tgaatgtgag gcctgtcatt 240

gggttaangg ctaagctgag gactaagcat tcgggtcatt tcggatcaac ttctggtgaa 300

aagggtaaat ttggattgac tactactcag attgttcgtg tggtgaagaa nctgcgtcaa 360

tccggtatgc ntgaattgtc cccaagcttc tgcaatttca aaattggggt cacaaaattc 420

cgttcaactt cgttgccccc cgaaaggtgt tcnc 454

<210> 3483
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H3

<400> 3483

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tgtantgana agaatcatga tgagatagat tttgagtttc ttggtaacat tagagaaaaa 120

gaatggagag ttcagacaaa catttacggt aatggaagta ctcattcagg aagagaagag 180

agatataatc tctggtttga tcctactgaa gattttcatc aatacagtat cctctggtct 240

gattctcaca tcatattcnt tgtagacaat gttcctatta nagaggtcan acgtactgcg 300

gaaatgggtg gtcactttcc atcaaagccc gatgtctctc tacacaacaa tatgggacgg 360

ttctaaatgg gcaactaacg gtgggaaagt acggggtaaa ctacaaatat gccgccttac 420

attgcgcggt tctcgggatc tagtccctgc aacgggctgc ccccgttgga ccctaaccga 480

gcaatttccc gaaggtgcga atgaa 505

<210> 3484
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H9

<400> 3484

atttcgatgg cgggattaga gaaaaacgct gatttctcag ggaagacgac naaatcggct 60

acaacgacgt cgttcttcaa caggtcgctt acaattcacg gnagaacant ggtggattcg 120

ggccccaaat cccacaatct caatccttct ctcaatcgta ccacctccat taccaaattc 180

tacacccccg tagaatcgat gggaacttct cttaaaggca aagtcaaaga acctttgtag 240

attattcgag acttccaaac ccgttaaacc tgccttanct gagattcctc agaagcagaa 300

atccggtaaa tccctttttac ccgaatcncg gatatcgcct ttttcgagct taaacanctc 360

ggtcatccgt cctcncggga caanaggaca ngattgtggn gtattttacc aacttgag 418

<210> 3485
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A10

<400> 3485

acgcgtccgc ctaatcatca ctcggctgct tcctgacgca gcaggaacta cttgtggtca 60

acgtctagag aaagtgtacg gatctcagta ttgtgatatc ctccgtgtgc cttttagaac 120

agagaaagga atcgttcgca aatggatatc aaggtttgag gtctggccgt atctagagac 180

ttttaccgag gatgttgccg ctgaaatctc gaaagagttg caggggaagc ctgacttgat 240

cattggaaac tacagtgatg gtaatcttgt tgcatccttg ttagcacaca aacttggtgt 300

cactcagtgc accatcgctc atgctttgga gaagactaag tacccggatt ctgatatcta 360

ctgggaagaa gctcgacgag aagtatcact tttcttgcca gttcacggct gatcttancg 420

cc 422

<210> 3486
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-A11

<400> 3486

gggcataaac ccattacacc aaaacctcat cgtagagaga gaaacacacc aaccattgtt 60

acactctaag agaagagaag agagaaggaa aaatggacgg tgtatcacca aagtttgtgt 120

tgccggagac attcgacggc gtgaggatgg agatcacagg ccaactaggc atgatctggg 180

agcttgtaaa agcaccagtg attgtccctc ttcttcaatt agctgtttac atctgtttgc 240

ttatgtctgt catgctttta tgtgagaggg tttacatggg aatcgtcatc gtcctcgtca 300

aactcttctg gaaaaaacca gacaaacgtt acaagttcga gcccattcac gatgatgaag 360

agcttggtag ctccaatttc cccgtcgtcc tcgtacaaat ccccaagttc aaa 413

<210> 3487
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A2

<400> 3487

tttaccggcc caaaattccc gaatcgaccc acgcntccgc tttcttcgaa tctcgacggc 60

tgaaacagat tctaaattta tctccggtga gaaagagata gagagcgttg attccggcga 120

aaagatgtct gaattcgaag atcacgaggg aaacggtacg gttgctgacg cgatttacga 180

cgaagagaat ggtggccgcg acggcgaaat cgaggatcaa ttggactcga aacccaagag 240

agaatcgcgt gaccatgaaa gagagacatc aagaagtaaa gatagagaaa gagagaaggg 300

tcgtgataag gacagagaaa gagactctga agtctctcgc cgaagcaggg atagagatgg 360

agaagaaaag caaggagagg agtagagaca aagacagaga tnatcntgag cgtcntccca 420

anaattatcc ctccacangg atnataccag ggaaccntgg tgaaaagaaa nanaacntgg 480

tgggtaggga tgatgatgaa ttacccgtcg aancc 515

<210> 3488
<211> 533
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A3

<400> 3488

ttttacgccg ccctntacgc cggccagtac cgcgtcnnaa cattccaggg ccnacgcatt 60

nttcccagga cgaatgagag ctccacacan tggctgcttg cgctactcac tcctctctca 120

tgctagcata cgccgccgca tccactcgtt cccaggacct tacccctact ccatctcttt 180

tctcttttgc cangctccag acccaaccac ttgagcttcc cgcttcttct ccttgggggt 240

tccagggacc ggagatgtgc tgctattgnc agagcttcca accacaagtt tattgtctcc 300

gccgtggccg ctgaggntga cctcgacacg gaggaggacc tgcagcaaac ngccaccgcc 360

gtccttgatc cgcccaagcc taagaaagga aaagccgctt tggttctcaa ngaagagatn 420

gaacaagggc ctaanaaggt ttttgggnaa tcccanaagg ctatggggaa accaaanagg 480

gngttatgat gtcaacactg ctatctcntt gcttaaacaa aactgccanc aca 533

<210> 3489
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A4

<400> 3489

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ttaacaaagt tgaggaaata cgtggcttaa ggggaagctg ggttggaccc cagatcagtg 120

ggggcacact cgtttcaaat tattcaatgg ttctgctgat atggtgacaa atcaaaaaca 180

gttgaatgca ctcatgcgtg cgcttttaaa gacaatgcaa gaccatgctg atgcttggcc 240

tttcaaagaa ccagtggatt ctcgcgatgt ccctgattac tatgacatca ttaaggatcc 300

cattgatctg aaggtaattg caaagagggt agagtcggaa cagtattacg tgacattgga 360

tatgtttgtt gcggatgcga gacggatgtt taacaattgt agaacttaca actcccccga 420

taccnattaa tacaaatgtt gcnaaccaag tttggaacca ancttccatn gaaagtncaa 480

ancaggtcnc caaatcgggg gccaaaaccc aattagaana 520

<210> 3490
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A5

<400> 3490

acgcntccgn ggacgcgtgg gcacctacca tctcctctct cttttcagat tcattcgtta 60

agaaagcaga tcgacatggc agctcaagga ggtgattcat atgaggaagc gttggctgct 120

ttgtcgtctt tgatcacgaa acgaagtcgt gctgataaga gcaataaagg ggatcgcttt 180

gagttagtct ttgattatct caagctactt gacctggaag aagacatttt aaagatgaat 240

gttattcatg tcgctggtac caaaggcaag ggatccacat gtacctttac agagtctatt 300

attcgaaact atggctttcg aactggactc ttcacttcac ctcacctcat tgatgtccgg 360

gaaagatttc gtttggattg gtgtnggcca taanttaana naaatttttg gggaaaattc 420

ctgggtggtg ctataacang gctcaaggga gaaaactaac gaggagatac caat 474

<210> 3491
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G5

<400> 3491

acgcgtgggc anatanangc agattctcan atttgcaaac atgacgactc agatcancaa 60

caagagaaag tttgtagcng acggtgtgtt ctacnctgaa ttgaatgagg ttcttacaag 120

agagcnagca tnggatggtt acncnggtgt ngaggttang gttactccta tgaggactga 180

gattatcatc agagctacac gtactcagaa tgttctcggt gacaagggga cganaattan 240

ggaattgact tcccttgttc agaananatt caagtttcca nttgacagtg ttgagcttta 300

tgccgagaag gttaacaaca gaggtctctg tgccatcgct cangctgagt ctttacgtta 360

caagcttctt ggtgggtctc gctgttcgta nggcttgcaa tggtgtgttg atgtttgtta 420

tggacagt 428

<210> 3492
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E5

<400> 3492

acgcgtccgc ttctcttccc aaaacattcc gtgaagaaga tctttttaaa gatcctaatt 60

ttctagatca agaacccggt tcaagatcac ctaaaccggg atccgaagct cctgatcaag 120

atccgggttc gacccggtca agaacacaaa atatgatacc gccgatgtgg gcactagcgc 180

caacgccagc ctccacaaac ggaggtagtg ctttttggat gttaccagtc ggaggaggag 240

gaggtccggc taacgttcag gatccatcac agcacatgtg ggcgtttaat ccgggtcatt 300

acccgggtcg aatcgggtcg gttcagctag ggtctatgtt agtgggaggt caacagttag 360

ggttaggtgt tgcagaaaat aacaatttgg ggctattttc cggcggagga gganacggtg 420

gncgggttgg ccccgga 437

<210> 3493
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E6

<400> 3493

ctgtaaccca acccactcaa acgaaatnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnncaa tcggaactct cgattcgctt tcttctccgt 120

tcttctgtgg cggaccggtt ttgtggtttt ttatttgaac attcccgatc ttgccctgag 180

ttccacgatc agtttcttta aaccctangt tttacacaag cattctgttt ctccagatta 240

tcncanactc tttcgttcta ntctttgtag ttttgtaaaa ggtatttcgg tagatttagg 300

gtttgtctgt gtctagtttt cgagatcnag agagatttgt gatgaatact aanagaggaa 360

gatatccacc gggtgttgga acnggtcatg gtgcgcctcc gaagccagat tatcatcaat 420

cgtanc 426

<210> 3494
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E7

<400> 3494

acgcgtccgc ccacgcgtcc gcttgcatca ntcgcatacc tgagaaaggn tacggaggaa 60

ngttccctta aggnctggcc gtncgcatac tccaactgat angctgcaaa nnanaaaatt 120

tnattcctac antgctanga aagagctatt caaggcagaa tcaaaatatt ggaatgaaat 180

aattgggggc tatgttcgcg ccttaaaatg ggaaaaagat gaaactaaga aatgttttgg 240

acatgaganc aggctttggc ggatttgcag ctgcactaaa tgatcataaa ctcnattgct 300

gggttctaag cgtggttcct gtcagtgggc ctaacacatt gcctgtcant tatgaccgtg 360

gactgttang agtgatgcac gattggtgtg aaccatttga tacataccca cngacatatg 420

acttct 426

<210> 3495
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F1

<400> 3495

ngttacgcct gcttttaccg agnccnanaa ttcccganaa cgacccacgc gctccgccca 60

cgcgtcaagc ggacgcgtgg gctaaagcga tctctgcaaa tctctcgcga ctctctcttt 120

caagatgcaa atcttcgtga aaacactcac tggcaagact atcactctcg aggttgagag 180

ctctgacacc atcgacaatg ttaaggcaaa gattcaggac aaggaaggca ttcctccgga 240

tcagcaaaag attaatattc gccggtaaac agctagaaga tggccgtacc ttggccgatt 300

acaacattca gaaagaatca acccttcatt ggttctcccg tttaaagaag tgggtatgca 360

aatcctttgt caagaatccn gactngnaaa gaacaataac ttgggganggt gaagaactcc 420

tgacactaat tgacaacgtt caaagcaana gattcaagga caaaggaaag gaatcccctc 480

ccggatnaag caagagnact ttatcctttt gccgggttaa 520

<210> 3496
<211> 469

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F5

<400> 3496

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ggcgctttat tctctcatcg gagcgcctca ccggtggtan acggtgtcgt tgttcctctc 120

cnaaaacntc catcatnnac catctcttta cacagagctc taatcaaaat cttcgagaga 180

tggggcanag tatgagctgt ggaagtcgac cggagcacgg aatattcgcc tctgtacagt 240

gcggcgatat catcactatc cgtcgtgtga tggcgacgga gcctagtctg ttgaatcaaa 300

ntactcctta tgatcgtcac tctgttcttc aatgtcgctg ctgctaaatg gtcangatng 360

aagattttgt cattgctttt ggaacgattt acgaaatcca agatttggtt gnatcngtca 420

cnaagcaaga ctccgtttaa tgtttgggct gcnatgtatt ggaaaaatc 469

<210> 3497
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F6

<400> 3497

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gtctattgtc ttcgcactat tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnngatatg ttnaactacg ggaacancan ngtgggagat 300

canngattgg catgattttt tcaannaggt tcaantgatt gacatacagt atgataagct 360

agacaanctt cnaaagaaac tgcangcttc ncatgangag tcaaaatctg tgaccaaagc 420

tcctgccatg a 431

<210> 3498
<211> 426

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F7

<400> 3498

cntcttcgtt tctancgaca gcttcactaa ncanttccaa atccaacatt tcattcgctt 60

cctcagtatc cccatccctc cgcancgtcg ttttccgctc cacgactccg gcgacttctc 120

accgtcgttc aatgacggtc cgatcnaaga ttcgtgaaat tttcatgccg gngttatcat 180

caaccatgac ggnaggcaaa atcgtgtcan ggntcaaaac agaangcgaa ganactcgcc 240

aagggagaga gtgttgtggt tgttgaatct gataaagccg atatggatgt anaaacgttt 300

tacnatggct atcttgctgc aattgtcgtc ggaaaaggtg aaanagtccg gttggtgctg 360

caattggatt gttanctgag actgaanctg agatcgaaga agctaanagt aaagccgctt 420

cgaaat 426

<210> 3499
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F9

<400> 3499

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ctctctcttc tcaatttccc caaatgaaat aaattcctcc gaaagtttat agatttcact 120

ctcccccgaa ctatacaaaa ttccctcaaa aggaaaaact aaaaagccga tcttggcttt 180

tttgtttctg agtgcatctc gatacttgga agcattcttt ggtgaggctg attcattctc 240

atctgtgaaa gtctttggct tttgaagcaa tactatggaa ggaattcagc atcctatacc 300

tcgcactgtc gaagaggttt ttagcgactt tcgtggtcgt agagctggtc tcatcaaggc 360

tctctctact gatgtacaga agttttacca tcagtgtgac cctgagaang aaaacttgtg 420

tcttaaggac ttccaaatga ngacatggga aggttaa 457

<210> 3500
<211> 505

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G1

<400> 3500

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tcagattcct taaccaacaa tattacaaat aagctcctat cttctttctt tcttttagag 120

atcttgnaat ctcctcntag ttaatcttct antgtaaaac taanatcaan agtctaaatg 180

gagattaacg gggcacacaa gagcancgga ggaggagtgg acgctatgtt atgcggcgga 240

gacatcanga cacagaacat ggtgatnaac gcggaggatt ctctcaactg gggagctgca 300

tcggagcaaa tgaaacggta nccatttggg tgnaattgaa aanaatggnt tgccgaantt 360

aangaaacca atttgttaat ccctgggggg gtgagactcc tgaaccaatt gggacaaagt 420

tggctgccaa ttctcaaact aattgggtaa acaatgttga aaaggtggag ctatccggag 480

aacagctaaa agcccngtgg tgaaa 505

<210> 3501
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G11

<400> 3501

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caatggttgg aatcatgtta cggatcgatc gtcgaaccca attgactaga tcccctcctt 120

gctccagcgg ttgaactggg ggctttcctg ttattagctc cagaagcaca actccaaagc 180

tatagatatc acatttctct gtcaccttca tcgtgtaagc atattctgaa acacagcaaa 240

acatcaatta gatatgttag ataagcgatt gtgggaagaa agaaaactgt gatgttttac 300

tcacctggag cgatgtatcc gtaagaccca gcaacaagct gacatggact ttgagtaaga 360

gaagatnaat caacttagcc aggccaaaat ctccaacatg agccttgaaa cgttcanca 419

<210> 3502
<211> 426

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G12

<400> 3502

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ctctcaccga tcatcagttt cgtgcgccgt atcgaattag gtgcgccgcc gcttcacctg 120

ggaaaaaacg gtataacatc gctctgcttc ccggagacgg tatcggtcca gaagttatct 180

ctgttgctaa gaatgtgctt cagaaagctg gatctctcga aggactggag tttgatttca 240

aggagatgcc tgtcggagga gcagccttgg atttggttgg agttccattg ccggaggaaa 300

ctttcacggc tgcaaaacta tctgatgcca ttcttcttgg agctattgga gggtacaaat 360

gggacaaaga atgagaaaca tctgagacct gagatgggct ctgttttacc ttanaagaaa 420

tttcaa 426

<210> 3503
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G2

<400> 3503

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnncgtata aatcctcccc attgttgagt taattagttc ttgtaaaccc atgacgtttt 180

ccgtcaaagc tgaaatggaa gttctcatgg tctcagatag ccactgttgc ttctgtcatt 240

gttctcgttt ccttggttca tctgtttctt ggtcctgtag tgccttcttt tgattctatt 300

actgtaagac aagctcagaa tctttgtgga ccaagtaatg aatcaatctc acaagtgact 360

aagaattcaa gtcaatccct tgttgttgtt gcctttggat tgccgctttc ctggctgact 420

cacacggtgc aattagttta 440

<210> 3504
<211> 487

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G3

<400> 3504

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tgtttcttta aaaggggttc ttanggttta gtgaagctat agatttcaat ttcatacata 120

gttaacgtat agaaggaatc ttgggttgat caatggaagg ttgtccaaga aacagagaaa 180

tcggtccaaa acttcttgat ttgattccac aangaaggaa atggtaccaa gaagacaaga 240

acaacacaga tcacgagaag aaacttgagc taangcttgg accacccggt ggtgatgaag 300

aagatcattc aagcaatcaa gaaagaanga acacnagaga taagaaacat caaagaanga 360

aacagaagac aaatctttcc actgttttaa tggcaatcac ttctctcctt ccaacaaaaa 420

ccacttctgt tcctcacatc tcacaagaaa aagaactgct cctgggtcca gtggtgggtt 480

ggcctcc 487

<210> 3505
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E3

<400> 3505

tgttacgcct gcctttaccg gnccnanaat tcccggatcg acccacgcgt ccgcangaaa 60

tcttcacttt ctctctagaa aaaattggna agctgactcg ataanagact ctctttttct 120

tcttcgtcct gcanatgggc gatcgaggat caagagaaca caatccgtga aatcaaacct 180

aagaacaaga agaatcatgg gagctggtgg tccggaggaa gaggagaacc ggtggccgcc 240

atggttgaaa cctttgctta aagagcaatt ctttgttcat tgcaagtttc atgganactc 300

tcataagant gaatgcanta ngtnntgctt anactgcacc aatggcccac tttgcnctct 360

ttgtcttgct catcacaagg atnatccgca ccattcanat aagggagatt cttcttatca 420

tgatgttata acgggtgaat ggagatacaa nagtaacctt ganatnangg tggggattca 480

aacctaaggt gttaantaat g 501

<210> 3506
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-B5

<400> 3506

tttttcaaat tgtcgtctaa agtctctaaa accaccatcg aagtcttgac agagagaatt 60

cgaatcggac agagaatttc ttccgtagtt tttcttgtaa gcgaaaaaga agtttagtta 120

gctcgtgtga gagaagggtg taatgagctg ttttggttgg tgtgggagtg aggattttcg 180

caacgctact gacactggcc caaggccagc gcataaccca gcaggttaca atggaggcca 240

ctaccaaaga gctgatccac ccatgaacca gcctgttatt cccatgcagc ctatttctgt 300

accagccatt ccagtggatg agctgagaga tataactgat aactatggtt caaagacctt 360

gatcggcgaa gggttcctaa ggaagaatgt tttaaggtgt tcttaaaagc cgtggtgcag 420

ctgccatc 428

<210> 3507
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B8

<400> 3507

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gaaagttgct gtctttataa ccaggatttg gtaattccca ttgtttcatg ggcaattctt 120

gccgtggatc tttcaaggac aaactcgacg aaggcgataa caataagcct gaagattact 180

ctaaaacctc taccaccaac ttgtcttcta attccgacca ttcaccgaac gctgcagaca 240

tcattgctca agaattctcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gatccagctc 300

ttgttattcc ctttaagaga accaatcatg agggcgttaa cccagacaat caaagcttac 360

taagttcctt ggtcataaag acaccaaaca attcgtggat aatccnatac ccctaanccg 420

caagcctang gtcaaagggt caatttggaa ccaactt 457

<210> 3508
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B9

<400> 3508

gccacanaca ttcccaaggt cnacccacgc gtccnatcgc gctctctctc tctctcttca 60

ttgattgagt catcatcttc ttggacaaga agtggtccga accaaaacca agccagagaa 120

tgaatctctc aggggatcga acaactctaa agcgtcactc gtcgctttca acacttgtgg 180

ctcatttctt tggcatctta gctgttgttc tgatgctaat ttggcttctc cactaccgtg 240

aaggcatcga gtatggctcc gacaaccccc ttaaggtttt aaatgtgcac ccatttctca 300

tgtactgtgg atttctcttc ctcgtgggcc aagcaatgat gacttacaaa acggcgtacg 360

cgtcgcacca agttcaagaa aatggttcac ggtgggcttc acttaatang cttaattcta 420

ngtaatgtcc ggatccgggc ccgccntt 448

<210> 3509
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C12

<400> 3509

tcagctcccc tagttaaact tggggatgca tcaatggcat ccccccttcan agctaaacat 60

gcgtcagttg ccccantgac anacataatc cggcagggtc gtagcacact tgtgacgact 120

cttcagatgt tcaaaattct cggtctgaac tgtctcgcca cagcatatgt cctaagtgtt 180

atgtacttag acggtgtaaa gcttggtgat gtccaggcta caatcancgg agtgttaaca 240

gntgcgtttt tcctcttcat ttctcatgcc cgaccgcttc aaaccctctc tgcagaacgg 300

ccccacccga gtgtcttctc cgtgtacctc ttcctctctc tgataggaca gtttgctgtt 360

cacttgacct tcttggtcta ctctgtgaag gaagctgaga aacacatgcc cgacga 416

<210> 3510

<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C3

<400> 3510

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tcccttcttc tcgactctct gactcaatca acctctataa atgtaaaacg agtcagaagg 120

aacacagacg cacatcaaga anttaaatca ctaaaatgga ttaccccatg aagaaggtaa 180

aaatcttttt caactacctc atggcgcatc gcttcaanct ctgcttctta ccattaangg 240

ntgctanagc cgtggangcg tcncgtcgtt ccacacaaga tctccaaaac ttttacctct 300

acttacaang caaccanaca tctntaacca tgttcttcnt ttacctcgct ctcgggtcga 360

ctccttacct catgacccgg gccaaaaccg tttaaccccg ttgactttag ctgctaactc 420

ccaacgtcgc atctcaaagc cagcanccaa gangatnatg caccacgtaa aggcttgtnc 480

g 481

<210> 3511
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C9

<400> 3511

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caggaaacat gcctcctcag aagattgaaa ctggtcatag cgacactatt catgatgtgg 120

tcatggatta ctatggaaag cgagtagcaa ctgcctcgtc tgactgcacg atcaagataa 180

ccggagtaag caacagcggt ggatctcagc atctagctac cttaaccggt catcgaggtc 240

ctgtctggca agtcgcttgg gcgcacccaa agtttggttc acttctcgct tcatgttcct 300

atgatgggca aattatatta tgggaaagaa ggtaaccaaa accaatggac acaagctcat 360

gtcttcacaa gaccacaaag tatctgtcaa ctctatcgcn tgggctcctc atgaacttgg 420

actcccctta accttgcgga gcatcctgat ggga 454

<210> 3512
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-D12

<400> 3512

caaataaaca ttaaacccaa atgatatatt ttggtagatc aatcgacaat cattatacaa 60

caatgatgac aaaaacattg gagattgatt tgagatcagc agaagggctt aagctaaacc 120

ggagacccat caagaaaaag actttcgccg tcgtaaaaat cgacgagaaa tgtcgaaaat 180

ctaatcttga cgaatcgaga agaagcaatc ctacatggaa ctataaatca gagatgccca 240

tcaatggtaa tgaacagttt atcttcattg aggtatttta tcgaacaggt tctgggcatg 300

ataaaaaaat cggagaagct aaaatcccaa cgaatgattt catgggaagg tattcacctg 360

aaggtcactt aaacttcttg agctatagat tgagagatga gtttggtgat aagtgtggga 420

<210> 3513
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D2

<400> 3513

taccggncca aagattcccg aatcgaccca cgcctccgnn ggacgcgtgg gtgttggtat 60

accaattctt acgtcaacgt caatgaagaa acgactccat atttacgaat aaaaaactgt 120

agtagatctg tactctccct ttttctttgt agagaagaag agaactgtga aagaagatga 180

agattgagga ggatctaggt ttcatcaaca tactcaaacg agcaacaaag cttctatgtg 240

gtaacatcaa tcttgttctc ttcctcttcc tttgctctct ccccctcttt tgtttcttga 300

tcttcttcga gctttcactc caaaccactg tctcactcgc ttctcaatan ctcgttccga 360

caactcacta attgggatta cnactacgtt cctcaaagat gcntccgtct tggagaaatc 420

cggattccaa tggcntatcc agacatttct acnctacntg gttcccgtta nggggctcat 480

agac 484

<210> 3514
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D3

<400> 3514

ttctacgcct gnctttacc gggcccaaaa attcccggat cgacccacgc gtccgnaacg 60

ancgaccagc catggacatt ggnggtccaa ccaatatccg ccacgtggct cacgttacct 120

tcgatcgctt cgatggcttc ctcggccttc cctctgantt cgagcctgat gtccccanaa 180

aagctcccaa tgcaagtgca acggtgtttg gggtatcgac agagtcaatg cacttatcat 240

acgactcgag agggaactgt gttcctgtga tactgttgct attgcaanag ccngctttaa 300

gatcaaagag gcttgcaagc aanaangatt attcagaatc actgggagaa aaaaaccnan 360

ggaanaattt tttaagggaa cagcttaata anagggatna tacctgatgg ggattgatgt 420

ccantgttta accgggtcct aataaaggct tggttcaaag aanctgcccn agaagggtac 480

tggattctcc tgccatccgn 500

<210> 3515
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D5

<400> 3515

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tgggtanagg aaaagtctcg cctttttta tatttatcca atcgcnccng ttcattgatt 120

ccccantagg attgtagttt ttggttattg ggaaaattga gtaaaggagg agatgggttg 180

tttctcgtgt tttgattcna gtgatgacga gaagctgaat ccagttgatg aatctaatca 240

tggtcaagaa gaancaatca caaccgacag tatccaataa catatcngga ctcncttcan 300

gtgggganaa gcttagctca nagaccaatg gngggattaa aaagggagct actgcttcca 360

ngggatggac ntggacaaat tgcngctcat acatttgctt tccgcaagct tgctgcngca 420

actatga 427

<210> 3516
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D7

<400> 3516

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agtagccacg acggtggaag caacagagaa agcgtaatcn atgatcatgg ccgccgtaaa 120

agcacttgcg gctactgtaa atccccagct cggtccanta tctctcacgg tttatnagca 180

cagactctta ccgtttatga ctaccaagct cttattgacc gatgctggag aagatctggt 240

acttatcttt acaaacatga gatggataaa acgtgttgcc ctccttatac gatacgtttg 300

aaagcaagtg attttgttcc tactaaagag cacnancgag tttctagaaa actagaaagg 360

ttcttggatg gcaaactaaa tgtgcagccc agggaacaaa nanggtgctt cttctccggg 420

ngatgt 426

<210> 3517
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D9

<400> 3517

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tttcttcttc tttcaaaatc tcaagcaaaa gaaaaaatgg agctattcac aaaaggtaac 120

aacgttaagt tacgtagcca cctagataag tttttagtcg ccgacgatga ccaagaaacc 180

atccgtcaaa gccgtaaagg agatgcacgg cgtgccgttt ggacggtgga gcccgtcgtc 240

gataaaccta atctgataag gttaaagagc agccacggca cgtacttaac ggcgagcaac 300

aaaccgttat tgttaggtat gaccggtgag aaagtgactc aaacggcgtc gtttaacaag 360

ctgatggatt ggcaaacgca gtgggaaccg gagcgagatg ggtttcaggt gaaagctaaa 420

atccttgggt gcggtaagtt ggatgaaggc taacggtggn aacccgccgt tggaaaaac 479

<210> 3518
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E10

<400> 3518

tgacatctcc gtgcaatcgg gagagaactt tttttgtgtt ggtggtggtt ggctttcgta 60

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agggcgtggt tcaggaagcc ttgagaatca acatggagat gaagcacagc taccgctgca 180

tctattatta tccggcagca acccaaagag catcgacgat gcaaaacgtt tagctgagaa 240

tcttatggat acaatcagtg tagaatttgg ggcttcaagg gtttcctcaa gcaaggtgta 300

tggtgcagta ccaccaccac agcaactgat ttctggagct ccgggttctg accaggagaa 360

ccaaaatttg atttcaacgt atggtttgat gacatcnata nccatcacaa gcaacaacat 420

a 421

<210> 3519
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E2

<400> 3519

cactttcatc tccaccacca ccatggatga tctctccaag cttctcttct tcctcctcct 60

cactatctcc attaccaccg cattacccga taaacccggg tcgggtcaaa taaactcaaa 120

ctccgtcctc gttgctcttc ttgantcaca ctacacagaa ctagcagagc tcgtcgaaaa 180

agctcttctt ctccaaacct tagaagaagc tgttggtcaa cacaacatca caatctttgc 240

tcctcgtaac gatgccttag aaaaaaatcn tgatcctgaa ttcaaatctt tcttactcca 300

accgaaaaaa ctcaaatcat tacaatcttt attaatgttc acattcttcc aaaaagaatc 360

acttctccac aattctcctc cgcggtcgtt aagcaaccgt tatctctcna acgacnactc 420

catttcacca aangga 436

<210> 3520
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B3

<400> 3520

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cagagaagcc tgccactcga tattgacctt tctaaccgac atttttgacc tcgagaagtc 120

tgtgaatgaa gaacagttcg tacggatcag ggacaatatc attattcctc ggggagctac 180

aatcaccaga atattgatng cctcattagc tggggcactt cccagttctc ggctagatac 240

ggtaacatat tcgctgctag ctctgacaag aacatacagg ttacaagcag tgagttgggc 300

taaggaaagt gtaagcctga tacctcgaac agccttgaca ganaccgaat ctaccaagtt 360

cttacaagca ttgtccgata ttgcttatgg agcaaatgtg aattctctga taggacangt 420

tgaggagctc tcanatgttt gtccgacgta accgtactgt tcaagaacct tgttcaagna 480

agctttgaaa 490

<210> 3521
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-H8

<400> 3521

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gcgtcccagc ttctggtgat cctcccgctc ttccacctgg agagcttgtt tggtccatga 120

gacaagctag aaccttcaga tggaacttaa cagcaaatgc agctagacca aaccctcaag 180

gatctttcca ctatggaatg atcagtccaa caaagacatt tgtcttctca aattcagctc 240

ctttgattaa tgggaagcaa agatatgcag tcaatggagt ctcttatgtg aaatcagaga 300

cgcctcttaa actcgctgat cactttggca tctcaggagt tttcaagcac caatgccatt 360

caaagcgtcc catcaaactc tccgccaaac agttgcaaca tcagttgttc aaacatctca 420

cca 423

<210> 3522
<211> 220
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A1

<400> 3522

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tgtcttgttg ttgtgataaa accattttta aaaggttata tatattccaa tggtatgcga 120

tgtagtagta acatataaac ttttgtcatg gtttggtttc agacattact ttatagagtg 180

aaaatgtatt gtatgttttt attaaaaaaa aaaaaaaagg 220

<210> 3523
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A12

<400> 3523

aaacaaagat ggttttgaca aaaaccgcaa cgaatgatga atctgtctgc accatgttcg 60

gatctcgcta tgttcgcact acacttccca agtatgagat tggtgagaat tcgataccga 120

angacgctgc gtatcagatc ataaaagatg agctgatgct tgatggtaac ccaaggctta 180

acctagcttc ttttgtgact acatggatgg aaccagagtg tgacaaactc atcatggant 240

ctatcaatan gaactacgtt gatatggatg agtaccctgt cacaactgag ctccagaacc 300

gatgtgtana cattatatct cgactgttca ntgcgccact cgatgnatct gatacngcng 360

tnggagtang ggacagttgg ntccntcana agncatcagg ttagccggnt ttggcttcaa 420

g 421

<210> 3524
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A6

<400> 3524

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gttatagggc cgtgcttctt gatgctcaga aacaaactga gccatttgta tattattgtg 120

gtgtttttct tgtccccaag actcgtgctc atgagtggct gttctgttca gaagaaggac 180

agtggcaggt tgtcgagagt tctcaggccg ctcgtctcat aatggttttt ctcgacagta 240

gccatagtgg agccaccatg gaggatatcc agaatgattt atctccaatg gtgacacaac 300

tagctcccag aaatgatgat gaagctcgca ttccgtatat gatggcaagt gatgggataa 360

aaaagcgtga tactgtccac gaggttacat ctcctatgac tgggaaagtg gttgttgaag 420

atgtggttta tgaaagcgct cctagtaatt tagaagactt gtct 464

<210> 3525
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A9

<400> 3525

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tctcccctct ctctctactt ctagtttttt tttttgtgtg atgatgaaca aagacatgtt 120

acttcaccag catcagcaac cacaacaaga cgagaatatg tcgaatctaa catcagcttc 180

cggggatcaa gcaagtgtct cttcaggaaa tataactgaa gcaagtggtt ctaattactt 240

ccctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttagttgttc cagattcgca 300

gactcaaaag aagaggagaa accaaccagg gaatccagac ccagaatcag aagtgatagc 360

tctatcacca aaaacactaa tggcaacaaa caagattcgt gtgtgaaatc tgcaacaaag 420

gttttcaaaa gaagaccaga atctacagct tcatangaaa gaaggtcaca atctgccatg 480

ggaagctgaa acaaagattc aacaaagaan tggttaggg 519

<210> 3526
<211> 506
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B11

<400> 3526

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tttagaaaat gggatcttct tctgggcaaa gtggatacga tctgtctttt aagatcttgt 120

tgattggtga ttctggtgtt ggtaaaagca gtttgcttgt cagcttcatt tctagctccg 180

ttgaagatct tgctcctact attggtgttg atttcaagat caaacaattg acagtaggag 240

gcaaaaggct aaaactcaca atctgggaca cagctggaca ggaacggttt agaacactga 300

caagctctta ctacagaggc gcccaaggaa tcattctccg tttatgatgt gacgagaagg 360

gagacattta caaacttant agatgtgtgg ggtaaggaga ttgagcttta ctccacaaac 420

caaagaatgt gttaaggatg ctcntttggg aacaaagtcc gataagagaa tctgaaanaa 480

gganttagca agagaaagaa agggat 506

<210> 3527
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B3

<400> 3527

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attcagacga acctagacac cattccaatg gatgagcagg tccaagaacc tctttctgat 120

caggtgttta tcaacttccg aggagatgag ctgcgcgaaa tctttgtcaa ccatctagag 180

ctgcaattaa gaaacgcagg gatcaacgtc ttcatagaca ctaaagagca gaaagggaga 240

agactacaat atctcttcac aaggatcaag aagtcaaaaa tcgcgcttgc tatcttctcc 300

aagaggtact gtgagtcaaa gtggtgtttg gatgagcttg tgacgatgaa tgaacagatg 360

aaggaaaaga aactcgtggt gattccaatc ttctataacg taagatcgga cgatgtaaaa 420

agagcagcca atccccgatg gagaangcaa tcttgatgga gag 463

<210> 3528

<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B4

<400> 3528

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agagtccctc agagtgaaaa agaggatgag tcacttgagg gagttaatat aaaccgatta 180

aagaagagcg ttgcttcatt tcaagaagat aagtatccac ctggaaagaa gttttgctca 240

gatgcatctc ctcgtggaac tagcatgaga aagttttccc cacctttttgt accaaatgcc 300

tggagacgac tatctatgcc tgtggagcta aagaaagctc ggttggattt ctctgaggaa 360

aaagatgatg aagaaacagg gaaatgggaa tctgaaatga ctcatgaacg tgagctgcga 420

gatgatgatt atgtttctgg tgatgatggg gaaaataatg aggtctta 468

<210> 3529
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B7

<400> 3529

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atcgtcgtaa tcgtggctct tcttcttctt cttctagggt ttcgaatact tatgggaacc 120

gccagttctc tgataacccg aggactggat ccggcggcgg agttaatgaa tcctttcaga 180

gaagatccga tgcaccgcac aaacgaaaca atgaaaaaga cgaatcaaaa cataaagacg 240

aagatcctgc tgacgtttca ttgattgtag gaacttgttc ttctangtgc ccagttctta 300

ggtcaattag gtactttccc ttcancaatt catgatcctt ccgtgcatcg gcagttcaga 360

acaaagaatt atcttttgct aggggtttag agagggaaag agtcacaaga gaacgcctgc 420

gtgatcttgc agtgtttgag a 441

<210> 3530

<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B8

<400> 3530

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tcgtcccaat ataagacaaa tactgaggct actaagagat gaaaacgaag ccgggaaatg 120

gattatggaa gangaaggaa atgaagattg cttcgatgac gaggtttacc cgaattccag 180

cacagaatta cacttaaacc ttgcgatgct tgaggtggaa gacgatgaaa ctgcatcaat 240

cagcagcatg gagagaagta acancagcct tttttcttct acttgttcat ctagggagct 300

tcaaacataa ggaattatgc ttttagctaa tagagaggtt angtacttan gttanaggtt 360

tgtttcttag tgtatggagt ttacttgatn actttatgtn ggacctgagc tccctgctgt 420

tatctggacc angaaaattc att 443

<210> 3531
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B9

<400> 3531

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnctttctcc actccaagcc tgagcgagac cgaagagtct ttcaacagnt 180

acgaggaaaa ttacccgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn gttaanggaa gagtctttcc cccgagaaca atgangacaa 420

cagagaaaaa angtcctaca actcctancg ncntacgggg acagaattng ancgttgaaa 480

ccancggtnc aagaggttca agcccaacct tggngagaac 520

<210> 3532
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C10

<400> 3532

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aagaacgatc ggaactaaaa aactcaatcg ccgagttcca cacataccaa ctcgatccag 120

gaagctgttc atcactccac gcgcaacgaa tccangcgcc tccggaactc gtctggtcaa 180

tcgtacgacg attcgacaaa ccacaaacat acaaacactt catcaaatcc tgctccgtcg 240

aacaaaactt cgagatgcgc gtcggatgca cgcgcgacgt gatcgtcatc agtggattac 300

cggcgaacac atcaacggaa agactcgata tactcgacga cgaacggaga gttaccggga 360

ttcagtatca tccggagggc gaaacatagg ctgacgantt acaaatcccg tttacgacgg 420

tgcatccggt tcgagaaaag agaatcgggt tctgggacgg gtggnttttg 470

<210> 3533
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C3

<400> 3533

gtacgcctca agaattccan ggncgaccca cncgtccgct gcgttnaact atgctgcaac 60

tgantacaan tttgatgagc atgctcctcc aatggctaag aaagtggtga ntcaagcaca 120

tgtattgatc tacaaggcga cagagaaagc tcaaagcttt gtgaaagagg ctcgtaccgg 180

tggtcccaaa gctgcgttta actatgctgc aactgagtac aagtttttcg ttgtgaccaa 240

ctcggttaaa gtctgggcna aacttaacca gtataaacca atccatgcaa tgggtgacaa 300

agctttgcct gtggctgcac acttttccaa gtcggtacaa cnatttggtg actgatatna 360

ctaatatggg ttactctttg gttggntatc ttccgttggt tcctgttgat gacattgtta 420

aggcttatga aaacganana tgcaaggaga aagaaaagga gg 462

<210> 3534
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C4

<400> 3534

nggaaactcc accgcacggt agcctcacaa attccanggg ccgacccacc cgtcnntctc 60

tctgctcttc ctctgtctac attaatgtaa ttttgatcat cggattgggt gaaagaaaca 120

tcaaactcct aaaagagaag cctttaaagt tttttttaa tcaaaaacaa aaggaagaaa 180

attttccttt ttgttttaga tggcatgaat catcatcatc gctttgcttt cttgattctc 240

tatttcgttt gatgggattt gtttttctgg gaatttattc attcacctgc tgccatggct 300

aaattatctt tcaaggattc tcttaaagct cttgaagccg atattcaaca cgctaataca 360

ctagctttag attatcctcg ggagaaggat ggagcgcgcg ttcagatgag attatcatac 420

agcccgactg ctcaattttt tctttttcnt gtacaatgga ctgattgtaa gcttgc 476

<210> 3535
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H7

<400> 3535

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cttccgtctc atatctgcca taactctact caaattaggg ttgtgaaact tgcggtgaac 120

tacttcgccg gaaacttcac ttccgggttt gggaaatgtg tcttgcttga gcatctctgt 180

cttggtatga acgatcttac tggtaacatc cctgaggatt tgtttcatct caaaagattg 240

aatcttttag ggattcaaga gaatcgtctc tctggttcgt tgagtcgtga gattaggaat 300

ctctcaagtc ttgttcgtct tgatgtttct tggaatttgt tttccggtga aatccctgat 360

gtgttcgacg aattgcctca gttaaagttt ttcctaaggc agnccnatgg gnttcnattg 420

gggggaatnc caaaatccgt 440

<210> 3536
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F11

<400> 3536

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gcttgccgtg ctttagtcaa tgtccttgaa gaacaaccca cagaagaaat gaaagtagtt 180

gctatatgtg ctctgcaaaa tctcgtcatg tatagccgat ctaacaaaag agcagttgcc 240

gaggcaggtg gtgtgcaggt cgtcttggat ctgatcagtt ccagtgatcc tgaaacgtct 300

gttcaggctg caatgttcgt aaaactactc ttctctaatc acaccgttca agagtacgca 360

tctagcgaaa ccgtcaagag caataactgg ctgccattga gaaagactta tgggccactg 420

gaaaccgtga atgatgaata cctaaaaanc cttaaactcc tttgttnaac aacttcccgc 480

gtctaagact acaaangcct ggaacactaa gttt 514

<210> 3537
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F3

<400> 3537

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actcgtgtag atgagaatcg gcggcgtcga ggttacgaaa tttgcgtcgg agatgatgtc 120

gtcgtcgtct tcgtcggcgg tggagatgtt gaatctcaaa gaagcttcga attggtggtc 180

agacgtaaac gaatctccga tttggcagga tcgtatcttc catgttctcg ctgttctcta 240

cggaatcgtt tccctcgttg ctgtgattca acttgtgaga atacaattga gagttcctga 300

atatggttgg acgacgcaaa aggtctttca ctttctcaat ttcgttgtta atggagttcg 360

tgctgtggtg tttgtcttca ggcgaaatgt tcagtttatg caaccagaga ttctgcaaca 420

tancctngcc tnganaatcc aaatncttgc tttcctcaac aacctn 466

<210> 3538
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F6

<400> 3538

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cgcgtccgga agagagaaga agaagaagaa tgaagctaac acataannnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnatgtggt gtacttcgga gctcactctc atgtcggaga gataacagaa gatgccatgg 240

atcgagtcaa agaaactcac tacgactttc ttggttcctt cactggaagc cgtgagagag 300

ccacagacgc cattttctac tcatacacaa agcacatcaa cggattcgct gctcatctag 360

accacgacct tgcttatgaa atctccaaac accctgaagt tgtgtctgtc ttcccaaaca 420

aagctttaaa gcttcacacg actcgatcat gggacttttt gggtttggga cataactctt 480

a 481

<210> 3539
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F7

<400> 3539

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aattcgtaaa tgtcttggcc tttgtcgttt tcaaacttca acatcagcat cacgtgattg 120

gctaatacaa ataaaatttt ctctttattt tattattttg ccacaagccg tgaaaagatg 180

gagaaaatga atgtccgttt tatgattgtg ttgatggtaa tgtctctggt tctgggtttt 240

tcgtcggcag ttgatttcag atggaggaaa actgcaggat tctcagatag attcaccaga 300

gctgtttctt cagtcgtgtt cccagttcat ggcaacgttt atcctcttgg gtactataat 360

gtaaccatca acataggaca accaccaaga ccttattatc ttgatcttga tactggtaat 420

gatctcactt ggcccaatgt gangcnccct ggggtccgtg ncttgaaggc cc 472

<210> 3540
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-G3

<400> 3540

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agtatctgca ctttggttca tcgagaaaca tctactcgac gaggcttctc ctgtggctac 120

agatccatgg atgaagcacg aatcatcatc agcaacagaa tctagctctg actcttgttc 180

tatcatcttc ggatcatcgt cctcttcttt cgccccaatt gatttctctg aatccgtatg 240

caaacctgaa atcatcgatc tcgatactcc cagatctatg gaatttctat cgattccatt 300

tgaatttgac tcagaagttt ctgtttctga tttcgatttt aaaccttcta atcaaaatca 360

aaatcagttt gaaccggagc ttaaatctca aattcgtaaa acgccaatgg aagaattcgc 420

cttccaagct naaacaagag tgggntcaaa ttcgcaagct tgaaaacnac caaa 474

<210> 3541
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-G5

<400> 3541

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ttgttttcta agttatcttt ttgtatgagt ttcaaagctt atcattatct cactcttctt 120

ccatagctat gactacttta acgaagattc aagtgtaccc acaagtcttg gagcaccgtc 180

tcttcttcag agatccgata cgggtcgggt caagattgac ttgtagagaa cgtagtaata 240

gggtttatgt gcatcggtgt gagaaaaaag ttgaaagaaa gagaaaagtt gagaaattta 300

agggaaatgg gtcgtgggat tctttgaaat ctgggttttt agggtttagt aaattagggt 360

tcttgtctaa agatgagtat aatcaagaaa gttgaaaacn tggagaaggg tttcccctcc 420

ggntgccggt caa 433

<210> 3542
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-G6

<400> 3542

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aacatcatcg tcgccgtcgt tgttttcgct gatgaatctc tccttcaaat ctccgggaat 120

tcaaagctcc tcgagaaact ccgtgtattt ctcgtcacgt gtttcctctt cttcttacgc 180

tctcttcctt caatcgtctc tttcgcaaac cctaattcgt cagtcgtctc tttcgccaac 240

ccttattcat cgaagacgaa gaagaagaat aagatactgg tgatcaacca ttgcgaagaa 300

tcgggaatcg gtcgagcaat ttgggcagtt attgtcagcg atgaatgaaa ttccggtgag 360

ttctaagaaa gtaccaagtg gttcgatcgt tggcggagag actaatcaac gataatcaag 420

gagaaaactc agtc 434

<210> 3543
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H10

<400> 3543

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tggtggtgat tgtgcttcac ttaccaataa aaacaatcag tctcatcagc cagtcctttt 120

tccctctcca atttggggtg tacgaggatg agtttgtgtt tggcttactt gttgcttata 180

tgtgcctagt aatattcggt ccccggtggt tagccaattt aattagacca tccatcagac 240

ccatagttca caagtgggtt atcactatca gttctttgct caagttgagt gatttcttgc 300

ttggagagcc ccgaaaacac cgtgcaaatc ataatatgag acttcggtgt ctagtatttg 360

gcataactga angctctaag gtcaatttgc atggatctca aagcgatacc acctgtgaaa 420

aaggatacaa aactaacaaa agagaataaa aagggttatg gt 462

<210> 3544
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H12

<400> 3544

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gcttcatcgt tcaagggagg aagtgaaacc tttctccana atgtatttga aagtatactg 120

aaaacgtatt tgaggaanaa cccgatggcg aagacgatat gggaactagt taactcggtg 180

gacaacgaaa agatctctta cgaccacttc tttttcanga catttaaggt cgatggttat 240

ggaattgatt ccctggcgag ttttttcatg gattatggat ataaagttgg aggcagactt 300

gattttccan gagaagaaag tanaagttct ctgggctttc tcctccggga tgttcacttc 360

cccggataat ggttaccngt attggcaatg gcnctttgc canngacttt gttaganncn 420

gaggcttcnt gtggagggaa 440

<210> 3545
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H3

<400> 3545

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accacacaca gccacaatct tttgaatttt cctcctcatc atcgtctctc tccgatccat 120

ggcctttaac aatttcaccc gcctcgatgc tcactccgcc gccgagaaag ccgtctctgt 180

aatcggatta ggttacgatc tctgctccga tgttcgtttc tccgcttgta aaaccacacc 240

cgacggttcc aggttagtcg aaatcgaccc gactcggaac cgtgacttaa tcttccccgg 300

tggtatcgtc gttaacaacg tctcgagctc gattaagtgc gataaaggcg aacgtactcg 360

attacgctcc gatatactct cttttaatca agatgtcgga gaagtttaat caagatatgt 420

gtccctccgg ggaagatccg gtcagggann gttaannant aagtttgggg ttaagtaaaa 480

tgttggg 487

<210> 3546
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H4

<400> 3546

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atatctacac aagaagataa gaagcttaag attctctcca caaaacaaaa atagttatca 120

gattcacaaa caaagccatc aaatttcatc attgatttgt tcaataagaa atgggaagca 180

aatggcgaaa agcaaaggtg gctttaggtc tcaatttatg tctctacgtt cccaaaacgc 240

ttgaagattc ttctcctcca agaagatccg acgacgccgt ttcactttct ccggttattg 300

ttcaaagacc atcaacgccg actccttcct cctctggtct ccgattacct cgttccatga 360

gcaaatcctc atcaaagaaa acttgtgcga tatgtttgac ggcgatgaaa gctggggcaa 420

gggcacgcc 429

<210> 3547
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H5

<400> 3547

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atctaaatta cgtatcaaat tccgagcaag atgactattc ttgttgaaca ttttgttcct 120

gattcaagag tggatgaaaa gaaagtgata gaggagangg ataatgaatt ggtgttggnt 180

ggaggttttg nggttccaaa atcnaaggaa actgatgcan tcnatgctcc tganatgaat 240

ttcctgggcc antccttcaa ggantatgag aatggtgaaa gccagagaca acaaggtgtt 300

gangaanttt acagggtgca caccacatcc accagcccta ngactttgng aagaatatga 360

ggaaagagta tggaaacctt aacaggatgg aaatgngtat gg 402

<210> 3548
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F10

<400> 3548

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cgcgtcngct catcttctct tccattcaaa tctcacattc cctcttcaca acaacagctt 120

cgtattcgct catcttcttc gctttctgat cttggaaatc gcaggcattg ttcgtctact 180

cgaggatttc aattttggtc atnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac cggcggttcg tatttccgac 300

gggaatctaa tcatcaaaaa ccggacgatt ctaaccggtg taccagataa tgtcatcacg 360

acgtcagcat cggaagctgg accggtagaa ggagtcttcg tcggagctgt atttaacaag 420

gaagagagta acacatcgta ccgattgggt acgcttcgca attcccggtt aagtctggtt 480

tccggttaaa ctctggtgga tggc 504

<210> 3549
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C7

<400> 3549

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acatgcgaga taatccaaca atgcatgtct tacaagcttc aaagtttcta tttttagctc 180

ttattttgat ccagttgctg tctactcaac tctttgctca aagatctaaa agtccatggc 240

aaacactcac tggagatgct ccccttgtca ttgctcgtgg tgggttttct gggttgttgc 300

cagattcaag tctcgatgct tacagttttg tatcgcagac tagtgttcct ggtgctgttc 360

tttggtgtga tgtgcaacta acgaaagatg caattggact ttgcttccct gatgtgaana 420

tg 422

<210> 3550
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D1

<400> 3550

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ctccgactct ttccccttga acctagctta acagagaaaa tcaaagagag aggaaaaatg 120

agtggaggtg gtggagaaat ggaagagaga ctgttaaatg ggtcagagac agaacaaagg 180

agagagagtc tctacttgag aaaaaagatt tggagtgaag taaggaagat gtggagaata 240

gctttaccat caactttgtt cagagttatg tcgtttggat gcgtagtggt ggctcaagcc 300

ttcattggcc actccagtga aacgggtctc gctgcttatg ctctccttca aagcactttc 360

attcgcttca tctacggtat tatggcaagt atgtcaaatn cgacananac cttatgtngg 420

acnaacctac nggngcaaga acaattcccc aagaatgggg gaaaaacctt anaaangttc 480

cttggganaa ttaaaaa 497

<210> 3551
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D12

<400> 3551

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ctcaaattca tcaacnatgt cttacgatta tctcttcaag tacataatca tcggagacac 180

aggtgtggga aaatcgtgtc tgcttctgca atttactgat aagaggttcc aaccagtcca 240

cgatctcacc attggtgttg agttcggtgc tcggatggtc accgtcgatg gacgccccat 300

caaactccaa atttggggac accgctggan aagnatcttt tagattcatc accaagatna 360

tactacagag gagcanccng gagtttactg gntttatgac atcannaaga agagagacgt 420

ttaancatct gggcaagctg gtttggangg at 452

<210> 3552
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D2

<400> 3552

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tctcatagat cagagtcgtc gtcgtcaact tcatcatcac aaaaatctca gctttgnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nccgttactc ttgacaccat 240

caaccccaag gttatcaaat gtgagtatgc tgtccgtgga gaaattgtca acattgctca 300

gaaattgcaa gaagatttga agactaacaa ggacgcttat ccctttgatg agattatcta 360

ctgtaatatc gggaatcctc aatctcttgg tcaacagcct ataacattct tcagagaagt 420

tccttgcttt aagttcctaa acaagcctgg ttgggatgaa aagtgcaaca cacggtttgg 480

ttc 483

<210> 3553
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D4

<400> 3553

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gagaagaggg aagacaaagg gaagagggag gagagagaag gcaccaccct ttggccctgg 120

agagaccaaa gatggtcgaa gagagacaac tctgagatca tcatcatcat cctgcaaaaa 180

ctaacgagaa atcgattttc aaaaatataa tcaagatcga tttctaggga tattttgatt 240

tctaaatcct ctcaccaaca ttctcttgct tgccctaccc gcttgctggt ttcatccaag 300

aaacataata atacattgtt tgcattataa ggaattcctt tatacagtat caagagatcc 360

acaagaagct gttagatccc aagagattaa cactgtgatg aaaagggttt tgtgaaaatc 420

aattttcaaa cctggaaaat gatgatnaag gacccttata tccgacaatt ttcctctttt 480

cttcngt 487

<210> 3554
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D7

<400> 3554

aacttctccc gccgcncggt aanggtcana gaattcccgg gccgacccac gcgtccnaat 60

atggtatctg aaaaggaaat tgatgcacct ttgcagattg gaattgttcg tgtctttgag 120

caacaaggta ttgaagctcc tagtgacgat gatgatttta ttgaggtaag atcaaaaagg 180

caaatgctta atgatcgccg tgaacagaga gaaaaggaaa ttaaagagaa gtctcaggca 240

gccaaggcat tccgaaaacc tcgttcaact ttccagaaca atactactgc agccaggtcc 300

aacagaagcc caccagctag ccgagctgcg aacaataagc agtttaatcc agtctccaac 360

agacagacgt tagccccaat tggcacacct tcacctaaaa tagattccca tgttgatgaa 420

aaatccggga acaacaagtc cactcaagga aattatgncc ctccca 466

<210> 3555
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D9

<400> 3555

acgcgtccgc anagataagc aaaccagggg agaaacagaa acctcttgag aaggatgcgg 60

gtgagaagac tattgcatgg ctggacaggt tgagaaactc aaacgggtct ctacctactt 120

caactatcag attgaacatg cagaggatta tgcagaacaa cgcagctgtg ttccgcacgc 180

aagaaacatt ggaagaaggt tgtcagttga ttgacaaggc ctgggaaagt tttggggacg 240

tccaggtgaa agatcggagt atgatatgga actcggattt gatagagaca ttggaactgg 300

agaacctttt gataaacgca tccataacaa tgcattcagc aagaagcacg aaaggaaagc 360

aagaggagca catgctcggg aaaacttcac gaaanngana aggattggag aatgggttga 420

agcatacatt ggggatattg ggaaaattga gaaattg 457

<210> 3556
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E10

<400> 3556

acgcgtccgc ttcagtgaca caaacccaaa gaaaagtagt gagaaacaaa atcgaggtaa 60

ctactagatg aagacgatga cgcaattaaa tattgcggtt gtggttgtag tgacggttct 120

tattggaatg ttgagatcat cggaggctca acttcaaatg aatttctacg cgaagagctg 180

tccaaacgca gagaaaatca tttcagatca tattcaaaat catatccaca atggtccttc 240

tcttgcagct cctctcatcc gaatgcactt ccatgattgc ttcgttaggg gatgtgacgg 300

atcggtgttg ataaattcaa catctggtaa cgcaagagaa gaagatgcac caccgaatcc 360

taacacttna aaggatccgg gttccgtgga aagggtttaa gggccctcct tgaaaaaatt 420

gtgtcccaaa gactggttcc ttgcgccaga taacaattgg ctttgacctg gctaaa 476

<210> 3557
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E2

<400> 3557

cgcttcccgg tnccggtcaa gaattaacgg gncgacccac gcgtccncaa aaaaaaatca 60

accatggttt cgaaaccgct attctcccta ttgcttctca cggttgcatt ggttgtgttt 120

caaaccggaa cccttgtcaa cgctgaagat tccgagcctt cgagttcaac gagaaagcct 180

ctggtgaaga ttgtgaaagg taaaaaatta tgcgacaaag gatgggaatg caaaggatgg 240

tccgagtatt gttgcaacca tacaatctcc gatttttttg agacatatca attcgagaat 300

ctattctcta agcgtaacag tccaagtggc tcacgccgtc ggcttttggg attaccgatc 360

attcattact gcggctgccg agtaccaacc tcttggtttc ggtactgctg gtgagaaact 420

tcaangggat gaaggaagtc gctgcgtttc ctggccacgt tgggaacaaa acctcatgcn 480

<210> 3558
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E3

<400> 3558

gtnccggtca aagaattaac gggncgaccc acgcgtccnc ggacncgtgg ggtgttactc 60

agtgcggtcg ttgggtcctt gataggatac ttggtagtcc tcatatgcag accacctcct 120

gagtttaata gattcaccat tgttatgact gcttttggaa atactgggaa tcttttgtta 180

gctattgtta gctcggtgtg tcacacgaag acgaaccctt ttggaccgaa ttgtaactcg 240

agaggggttt cgtatgtatc gtttgcgcaa tgggttgctg tgattcttgt ttatactgtt 300

gtgtatcata tgatggagcc gcctttggag tactatgagg tcgttgagga agaaggggtt 360

gagatagagg agatnaatgt ggagaatcat gatgctanta agccccctcc aattgaaact 420

gaatnggcaa aggaattnan ggacaanngn ncagaacaat tgcaagaaca cct 473

<210> 3559
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E5

<400> 3559

acgcgtccnc tttcaaaagt actatgatac tgtcatgcct tatctcaaaa ctattttgat 60

gaatgcaact gacaagtcta agcggatgct tcgtgccaaa tccatggagt gcatcagtct 120

tgttggaatg gcagttggaa aggacagatt caaggaagat gctagacagg tcatggaagt 180

gctaatgtca ttgcaaggtt ctcagatgga ggcagacgat ccaataacaa gttacatgtt 240

acaggcatgg gctaggcttt gcaagtgtct aggtcaagat ttcctcccat acatgaaggt 300

tgtgatgcct cctttgcttc agtcagctca acttaagcca gatgtaacaa ttacatctgc 360

tgattcagaa gatgaagcan angantccga tgatgaaagc atggagaaca ataaccctgg 420

gggaacaaaa gaataaggg 439

<210> 3560
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E6

<400> 3560

aactttccgc cgcncaggta aaggtcanag aattcccggg ncgacccacg cgtccnatta 60

tctccgagca ttctcaagtt gggtgattcg gtacggatta ctgatttggg agagaaaaac 120

cctagattgg aattagattc tgggttcttg ggctaaaggt ttcttcatct ccttcgaatc 180

atccttttag ggagcaagac gatgagtaga aacccttcc tggatcctac tcttcaagaa 240

attcttcaag tgattaaacc cacacgagca gatagggata cgaggatcac agtcattgat 300

cagttgcgtg acgtcttaca atccgtagaa tgtttaagaa ggtgctactg ttcaaccatt 360

tggatctttg tgtcaaatct cttcacacga tggggagact tagatatctc tgttgactta 420

ttcagcggtt cttccatctt gttcactgga aagaagcaga aacaaacttt actcggacat 480

<210> 3561
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C5

<400> 3561

acgcgtccnc ccacgcgtcc gggagactaa ctgtctcttt tctatgtact gttgccaact 60

acgagtatgg gttttactgg cacttctacc aggatgggaa aatcgaagct gaagtaaaac 120

ttactggtat cctcagttta ggagctctgc agccaggtga aactcgaaag tacggtacta 180

ctattgctcc tgggttgtat gcaccagtcc atcaacattt ctttatcgct cgcatggata 240

tgtctgttga ctgtaaacct gctgaagctt ttaatcaggt agttgaggta aatgttagag 300

ttgacgancg aggtgagaac aatgtccaca acaatgcgtt ttatgcggna agagaaatta 360

cttaaatnct gaagnaattg gcgaancctt actgtggacc nccttttggg cncccattgg 420

gtttttagg 429

<210> 3562
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F1

<400> 3562

ntgttacgct tccagtgccg gtcaagaatt aacgggtcga cgcacgcgtc cgctccgttc 60

cttagcttct cttccagatc caaactctca ccaaactttc tcacaacaca cacacaattc 120

gattcgatcc acactcttaa aatcccaaag atctctctga ttttgaaatt cgattcttcc 180

ccagatcaac ttgtgaattt ttccacaatt ttggttcatg attttgattt cgtgaaggac 240

ttatggattc acacccttcc ctaatgggaa ggtccattac caattcgaac cgatcgagct 300

tagatcttgg tcgtccttct tcgtcttctt catcttctcc ttcaccgtta accaaatcga 360

tctccgatgc aagtagtcaa agtctctctt cgattcttaa caatccacac ngnngnnaat 420

ccgggngtta angggtccga agcancctng ggttggttgg nggncttaat cgaaaatttg 480

tagccc 486

<210> 3563
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A9

<400> 3563

aaccattcct ctcctcaaaa ccattaatct ctcttctctc tagcataacc tctctcagat 60

ggcttctaac tatgataagc ttacttcttc gagagtagcc atcatcggtg ctggtgttag 120

cggattagca gccgctaaga acttagttca tcacaacccg accgtattcg aagcctcgga 180

ttcagtcgga ggtgtttgga ggagctgcac ttacgagacg actaaattac aatcggctcg 240

agtcgattac gagttctccg actttccatg gcccaataat agagatgaca caactttccc 300

accttacctt gagatattag attacttgga atcttatgcc aaacattttg atcttctcaa 360

attcaatgaa gtttggctct aaagncatcc gaagtaaggg tcancggtga tg 412

<210> 3564
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B10

<400> 3564

ttttacgctt gccggtgccg gtcanaaatt aacgggtcga cncacgcgtc cngtaaatta 60

aagtcttctc tacttcacca taaaaaatgc ttgcgcacaa gtctcttctc tcctttacca 120

cccaatgggc tacactaatg ccatctccgt ctacttttct cgcctctcgc ccccgtggac 180

cggccaagat ctcggccgtg gcagcaccag tgaggccggc tctaaaacac caaaacaaaa 240

tccacaccat gccaccggag aaaatggaga tattcaaatc tttagatgga tgggccaagg 300

atcaaatctt gcctcttctc aaacccgttg accaatgttg gcaacccgct tctttcttac 360

ccgacccggc cttacccttc tccgagttta ccgaccaagt tcgtgagctg aagggaaaga 420

acggnctcgc ctgccaagac gaatacttcg tgggtgtttg ggttggag 468

<210> 3565
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B11

<400> 3565

cccttgnaaa cgttaaatga tcttctcctc cgatcattag tctctttaat ctttctcagc 60

ctcttcttgt tcgtgatctc tcttcctccg gaaaaagatg tcggccggta acggaaatgc 120

tactaacggt gacggagggt ttagtttccc taaaggaccg gtgatgccga agataacgac 180

cggagcagca aagagaggta gcggagtctg ccacgacgat agtggtccga cggtgaatgc 240

cacaaccatc gatgagcttc attcgttaca gaagaaacgt tctgctccta ccacaccgat 300

caaccaaaac gccgccgctg cttttgccgc cgtctccgag gaggagcgtc aagaagattc 360

agcttcaatc tatcagtgca tccgttaaca tccttaacga gaagaatcaa gga 413

<210> 3566
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B12

<400> 3566

agtgccggtc aagaattcac gggtcgacnc acgcgtccna aaagtttgga ttcctccaat 60

aaagaacatg annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnng gcactaaacc caaatccgtc gttagcctcc accggtagca acatcaacac 180

aaacgacatc gtgacgcagt acagcacata cgttagaacg cgtgcaacgt aacgcgatac 240

aaccgcctct gcgtccgaac gctatggccg tttgcaatcg tcgctcgaaa caacaccagc 300

aagtgggctc gagctagcgt cgcggttacc ataaccgaca ccaaacgggt gctgaggctc 360

ttgctcaaaa cgcagcgttc agcagttggc gaaagcgaag cgaatcgcgt tgtccggatt 420

gccgagaact cntcgtggac tctctcgaac a 451

<210> 3567
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B4

<400> 3567

nttctacgtg gtcgggccgn gtcannaatn accgggtcga nccacgcgtc cgttctggtc 60

atcgatcaag cctgctcatt ttggtgtaaa gataacgtcc aaatctctct ttgggatatt 120

ccgatatgtt acacttggng tgtcacttgg tttactttcc aagttctcct tcggaagatg 180

gcttcttttg aaattcccct cagttttcag ccttggttgg ttccagaaga aaggtccaag 240

tgaagaagag gtagaaagcg ctacgtttaa gatgtggttc ataggtcgtg ggtacagcga 300

atagagtcta gcttcacaag gagaaacaaa gcctgacttg gaaatcatta caagaatttc 360

aggacctgag attggatata taaccacccc gattacactt gttcaatgcg gtttgatant 420

cctggggcca gcgcgaaaag ctagtttaan ggaggagtca anacacccgg cattg 475

<210> 3568
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B8

<400> 3568

cgacgcggna caggtacagg tcacagaatt cccgggncga cccacgcgtc cnaattaaga 60

cgatggcggc tgcaatggct tctcatgttt cgacggctcg atcaccggct ctttccttct 120

cttcttcgtc ttcctccttc ttccccggta ctactcttcg gagattctcc gccgtttcac 180

tcccttctcc tgctctccct cgccttcgtg tttcatgtca agcctcctcc gtcacttcgc 240

cttcttctcc ttccgatgtc aaaggaaaat ctgacctgaa agactttctg gcaatagatg 300

attttgacac agccaccatt aaaacgattt tagacaaggc ttcagaggtt aaggccttgc 360

tgaaatcagg ggagagaaaa ttatctacct tttaaaggga agtctatgtc taagatcttt 420

gcaaaaactt tcaatgaagg acccgggttt cgttgana 458

<210> 3569
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B9

<400> 3569

tcangggccg acccacgcgt ccncacagag ctgacgttag catttgtctc tgaaatccca 60

gatccgaaaa cccaacaatg gcgtcagaga acaacggatc cagatccgat tccgaatcca 120

tcaccgctcc caaagctgat tccaccgtcg ttgaaccgag gaagatagct ctgatcaccg 180

gaatcaccgg ccaggacgga tcatacctga cggagttcct tctcggaaaa ggctacgaag 240

ttcatggtct gatccgtcga tcatcgaatt tcaacccca gcgaatcaac catatctaca 300

tcgatccaca caatgtcaac aaagctctga tgaaactcca ctacgccgat ctcaccgacg 360

cttcctctct ccgtcgttgg atcgatgtga tcaaacctga cgaagtttat aacctanctg 420

ctcaatctca cgtc 434

<210> 3570
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C10

<400> 3570

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gcattaaaga ctttggagat tcttggaatt gataaaaagt ctgatcttag ctcaaagact 120

tgtgagaatg tggttaaagt tcttcagtcg tcttcttcta ctcttaagga tgcattttat 180

gcgttaaacg ttaatgggat tctaaaatgt aaaattggtg aagctggtcc taaggacatt 240

gtttctcaac ttcaagctgg tgttaaagat gcgaagctat tgcttgattt ctattattct 300

gtcagaggct tggtgctggc taaggagcaa tttcctggaa ctcatataag tcttggagat 360

gccgaagcca ttttccgttc catcaagtct cttaaccaga gtgatggaan atggcgccta 420

cagctccaac aatccccgaa tcaaagcact tt 452

<210> 3571
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C4

<400> 3571

gggcccggtc anaaataaac gggtcgaccc acgcgtccna gcattttcgc ttcaattcaa 60

taaaaggcga aaaatctctc actgcacttt atctcgagag ctcagatctc cgatctagag 120

cctttcgctt ctcctcttct gttcatataa caactgaata atgtcgatct ccgcccaaaa 180

tccggatatt tccggcgata gacaatccgg ccaagatgtt cgtactcaga acgtgatggc 240

ttgtcaagct gtttctaata ttgttaagac ctcacttggt cccgtcggcc tcgacaagat 300

gttggtggat gatattggtg atgtgactat tacaaatgat ggtgctacta ttcttaggat 360

gttggaggtc gagcaccctg ctgctaaggt tcttgtcgaa gttagctgaa cttcaagata 420

nagaagtcgg tgatgggact acatccgttg ttaatgtagc tgctg 465

<210> 3572
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C8

<400> 3572

anagtgagtc gtatctactg aatgcantct cagaagatgg cagcctgtng acgatgccac 60

cctgggttaa cccgtggctg ctcctgacaa tggctgtctc atttggactc cactttgtga 120

tattgtangt cccattcttg gctcaggtgt ttggtattgt gccactgagc ttgaacnagt 180

ggctgctagt gctggctgtg tcgctgccgg taattttgat agacgaagtg ctcaagtttg 240

taggaaggtg cacgantggc taccgctact catctcgcac tccctcagct aagcacaagg 300

angagtaata aaataattca nnaggcattn ttattacact cttantttta gctgangtta 360

actttgttgc tttactcatc cntgcctaat t 391

<210> 3573
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C9

<400> 3573

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tggtatgagt tgtggagcct gctttgagct aaaatgcgcc aacgaccctc aatggtgtca 120

ctcaggtagt ccttcgatcc tcatcaccgc aaccaatttc tgcccaccaa acttggctca 180

gcctagcgac aacggaggat ggtgcaaccc accacgtgaa cactttgacc tagccatgcc 240

tgtcttcctt aagatcgctc aatatcgcgc cggcattgtc cccgtctcat accgcagggt 300

gccatgtaga aagagaggag gcataaggtt cacaatcaac ggtcaccgtt acttcaactt 360

ggttctgatn actaacgtgg ctggagcaag agacatcgtg agggctaatt gttaaaagga 420

tnacgggact ggttgggatg aatt 444

<210> 3574
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D1

<400> 3574

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ttagcaatcc ttctttcatt gccgcacagt cgaagtttga ggaactaact tcatctactg 120

gttcaaacaa agcaatgacg ctgtcttcta aagatgatgt tttgggtgaa gaaggcaaaa 180

cagatataga ttcaccagac actacaaaca cactaaagga tcactctttg gaagatgtta 240

ctccagctga gcttagtgga tccgagtgtg gcaccgaact ctctgtaact tcttctcttg 300

acacacttga gaagaagtca gacgctgagg gtgcagagcc cagggtagaa gctaagcttt 360

tagaggatga cacttttaaa acagaccaag cagagttgat agaaattgat gttaaagacg 420

caacgtcaat gggtactggt tnaagaaccc taaggg 456

<210> 3575
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D3

<400> 3575

acacctaaca naaatcctcc agccatgggc gggnagttac tcaatttctc tccaaacctt 60

catcaatccc gcggnaaccc taaatcagta ccaatttgaa tcagacttca ctctcaagaa 120

tcccattttt gtctctcaag tcaacattga agccacttaa acgcctctcc gtcaaagccg 180

ccgtttccca aaactccacc aaaaccctca cgaaagaatc tgcttcctct ttcgaccact 240

gtttcaagaa atcatcagat gggtttctct attgcgaagg aaccaaggtt caagatatca 300

tggaaacagt cgagaaacga ccctttttact tatatagcaa acctcaagat cacganaaac 360

cttgaggctt ataaagaagn tttgggaagg attnnattcg gtnatnggtt acnccattaa 420

agctaataac 430

<210> 3576
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A8

<400> 3576

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ttttggtaat caggctccaa cctcaacaat gaatggttcg aaaaaagaag ataccagagc 120

cttcgatttc atttctgatc atcttacatc agcccgcgac acaaagagag tatcttgatg 180

gttgcttaca aaattccgcc ttccagtgtt aaatgctatt tcatgagatg tggacacaag 240

ggtgcaggaa gctaaaacat taatttatga gagctgtata nacttgagga gaaaatggag 300

atagctttat aattcatatg gtaagggttt ttgcttcttt tatctgtttc ctccgttttg 360

tcnttggttt ttcctcctcc ttggantcca attggtcctt ggaatgaaca tgtagttgta 420

n 421

<210> 3577
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D6

<400> 3577

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tttttgttca tgtcttcttc ttcttcttca agaatgagct aatactcaca gaagaagaag 120

atttttcttt ggatttttca ctactgaggc attgttgtga aattggatgg tagtagcatt 180

ggaatggcag aacaaaagag tagtaacgga ggaggaggag gaggagatgt tgttatcaat 240

gttccagttg aggaagcatc aaggcgttcc aaggaaatgg cttcaccaga gtctgagaaa 300

ggagttccct ttagtaaaag cccttctcct gaaatctcta agcttgttgg tagtcctaac 360

aagcctccta gagctccaaa tcagaacaat gtgggtctaa ctcagaggaa atcttttgca 420

aggtcggttt actcaaaacc caagtcccgg tttgttgatt catccntgtc ccggt 475

<210> 3578
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-F7

<400> 3578

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aaaggcggng tctctctcca gttattttgc tcatccatcg attcttanag ttcaaaatgg 120

ntgatcaagt tcagcacccc actattgcgc anaaagctgc cgggcagttc atgcgttcaa 180

gtgtttccaa ggacgttcaa gtgggttacc agaggccttc tatgtatcaa agacatgcaa 240

cctacggaaa ctactccaat gctgcatttc aatttcctcc gacatcccgg atgttggcaa 300

caaantgcnt ctcccgtgtt ttgtccaaac ccccangaag aagaaagggg ttcactaacc 360

tttgcccgnt gcctttctga tngggtggtn gtttctgctg ncggtctcga agncctgcnt 420

gctgctcctn attgaacgtg ttaaggctt 449

<210> 3579
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G11

<400> 3579

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agaagctcct tcatcacaag gagctcgaat cccgtgtccg aacagctagg gagaatttaa 120

gagcagctaa gaaggaattc aacaaaactg aggatgattt gaagtctctt caaagcgttg 180

gccagattat tggagaagta ctacgtcctc ttgataacga gcgattgatt gttaaggcaa 240

gtagtggccc tcgttatgtg gtgggttgtc cgtagcangg tggacaacga aaagcttact 300

tctggaactc ggagttgtcc tggatatgac tacgcngaca attatgcgag ccctntcctc 360

gtnaagttgg atcctgttgt ttatancaan gttngcatga nggatcaagg ccaa 414

<210> 3580
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G12

<400> 3580

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gactactaat gaagagttta aagctgcggt atccgctgcg aagcaagcgt ttccgttgtg 120

gagaaacacg ccgattacta cccggcagcg tgttatgcta aagtttcaag agcttatacg 180

caagaatatg gataaacttg ctatgaacat cacanccgac caagggaaga ctttaaagga 240

ttcacatggt gatatcttcc gtgggttaca ggtttgtgga gcatgcgtgt ggaagggcaa 300

ccttacanat gggtgaaata tctcccccaa tgngtcgaac gggagtttga tacatatagt 360

nttaggagaa ccattanggg ttntgtgcct ggcattttgt ccttttaaag nttccaagg 419

<210> 3581
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G2

<400> 3581

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cgtagccgtc ggctggggaa ggagacgaat cgatccgatc tattcaaaaa acctgcagtt 120

ccattcgcat tcgcgctaat tcttgctgat gcaatcctag tcgcacttat tatcgcctat 180

gttccataca cgaagatcga ttgggatgct tacatgtcac aagtgggttt ctcgggggag 240

agagagacta tgggaacttg naaggcgata cagggccatt gggtttatcc aagcaaggtt 300

tcctctatgt ttactctgca gtgcagaact taaactggga aggggaagtc taccctgctc 360

aagattcttt ttgggtgttc tcctacaatt gtcaatcctg ggggatncgt ccntggatca 420

tcctacgt 428

<210> 3582
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G3

<400> 3582

acgcgtccgc tcctcttctc tctctctcaa tctcaatggc tctgttttaa aaagggcaaa 60

ttagagagat ttctccttca ataacaaaaa atcgccagct ttatctctct ctttttcaca 120

tcccatggct agatggtgac gacgattcac gcataaacta gggttccccc acaaatcatc 180

ttacacgtat cctctattcc ttccttcctt tctccgtcat catcattttt cccanccgac 240

aacaatctct cggagtttgg gtattattac ttctctcatc aancaattgt nccactagat 300

ctcccagatt ccttcattat ctctatcaat aatggcgttt gaaagtcnag tttctgcctg 360

atggtaaaaa ccaagaaagc tctgttcang atcttcaagt gggtttangn ttanggttgg 420

cctcntttan nttttgggaa gcatgggcaa acng 454

<210> 3583
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G7

<400> 3583

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gaaaacagtc tgaggtagtc tccgaggaac aaaaccgtcc taacaagtcc ccaaggagct 120

ttgacaaacc atcaccgagc aataaaaagg gcaatggttt taagaaaccc aagagcaaga 180

aggtggactg gagcgttttg aggccaccaa aacctcaaac caaatagggt ttaaattagc 240

taactacagc aatctatatg ctattagtta catcggttca tatgttctag tacatcgttt 300

gttgctctgt ctgtatcgtc attcccgtgg tgttgcaacc cgttggataa attatagcca 360

aaagttttga atttgtttgg ggttaaaann tgtccgttgt tgtcnaaaat 410

<210> 3584
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H1

<400> 3584

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gccgttggag ccacggtcat gctcaatatt ctagtcgcag ggccatcgac tggtggatct 120

atgaatcctg tgagaactct aggaccagcc gttgcatcag gaaactatag gtcactatgg 180

gtgtatctgg tggctcctac acttggtgcc atatctggtg cagcggtcta cacaggtgtt 240

aagcttaacg atagccgtga ctgacccgcc tcgtccggtt aggagctttc gtcnttaagt 300

gagtgagaga cttgtttaca agtcttttgc tttgtataat tttactgtaa gattaagtaa 360

tgatatcaaa aagctttgga aagcntgtgt naagaatnaa aggcatgtta cnaaaaagtc 420

accca 425

<210> 3585
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H5

<400> 3585

aagtcaacaa gaaaccgggt ttgtctacaa tggcttcgag caagcagatc tttttattga 60

tgggatcgcc aaaatactac ctgatgggct tttgcagttg acaaatacta cagagttgca 120

aatgggtcat gctttcttca agaagccgtt tgattttgat ccatcttcat cactatcgtt 180

ctatacacat tttgtgtgtg cgcttgtgcc tcctaagttg ggagctgatg gtggccatgg 240

gattgtcttt gttgtatctc cttcccattg atctctctca tgcatacgca actcagtact 300

tgggggtcct tcancaaact tancaaaatg gggacttcct ccttaacatc ctgccnagct 360

anntgancnt ccatnaccgt taangacatt ngagttnaaa nggagctgga ncaaagccnt 420

catgttcggg nattggattt gc 442

<210> 3586
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H7

<400> 3586

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aatccgtaat cagatttccc catcaatcga taattttctc tcgccgcgtt ttctattttt 120

ctcgctcttc ccttttaatt ttcatcccat tttcttgaag gagatttcta attattctgt 180

gatctaaagt ctgaagcttt gtttggttgc atctcgatga tgatgatgat gatggttgat 240

tgtaaatggg tagtttcggt ttggttgtag caagaagcta agtttgtcaa gttaataaga 300

gtattttaag ttttttttt gtnaaatcna tttggtgggt tcaacaancc nacgatcgga 360

naagttttcc anccnttgan taatttgaga ntcnggggat ttttacggag aanttcgagt 420

<210> 3587
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-A12

<400> 3587

acgcgtccgc ccacgcgtcc gcccacgcgt ccgaaaaaaa gggttaggtg gatctctcat 60

gaaatcggtg gagctccccc atatcttttt taaatagctt tcttcttttg gcccccttacc 120

cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180

cctgatggag tcttcaagtc cccaccatag tcacattgtt gaggttaatg ttggaaaatc 240

tgatgaagag agaataattg tggcgagtaa agtctgtgga gaagcaccat gtgggttttc 300

aagattctaa gaatgcttcc ggggatgctc acgaacgctc tgcttctatg cggaagcttt 360

gtatcgccgt cgtgctgtgt ccaatggtca agaatgttga aattgt 406

<210> 3588
<211> 479
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A2

<400> 3588

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caattcctat catttgttaa gaaaaagagt tagaagtatt aataatctta caatatttat 120

agataagata acaacaatat gaagcattct cacgttttgc ttcttctatt tgttcaagtc 180

attgcccttt tgcctctcct ttgtctatcc gacgattttg ttaactctag agctacttat 240

tatggcagcc ccgattgcaa agcaaatcct cggggacatt gtgggtatgg aagaatttgg 300

aagagatatc aataacggtg aaattgagtg gtgtttcatg ggcgactatg gaacaaatgg 360

aactggctgt ggtgcttgtt accaaggtga ngtgcaaaga taccaccaca ctgcagtgaa 420

ggaaaggagt atacgtagtg gctacggact ccggaaaaag gaaatggaac ggacttcat 479

<210> 3589
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A3

<400> 3589

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gtcttccaac caagtcacag gatgccaaca atgtgcatag aggatgctgg gttaacagag 120

atgaacataa tgaatgattg gcaagagcag acgaaaaaag ccattgaaga agcaaccacc 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncctcgc 300

ggtgcaggta acaagaaact cacaccttgt ggctgagact agagaccgag acacacatta 360

tttaacactt tctccctctc ttttgtttct tatttccaaa acctcttcgt tcacttatta 420

taatgtcngt aatgttatca tccttccaan cctaaancct tanccttcag attttggggt 480

tcacg 485

<210> 3590

<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A4

<400> 3590

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ctcctattca ggaagaaagc attcccattg ctttgactgg tagtgatatt cttgctagag 180

ccaaaaatgg tactgggaan actggtgcct tctgcattcc tacccttgag aaaattgatc 240

cagagaacaa tgtcattcaa gccgtaattc tagttccaac ccgagagctc gcccttcaga 300

catcccaggt ttgcaaggag ctttccaaat atttgaaaat tgaggttatg gtcaccactg 360

gcggtaccag tctgagggat gatatcatgc gattgtatca acctgtccat ttactggttg 420

gaactcctgg tagaatanta natnctgcca aaaaaggtgt ntgtgttttg aaaaat 476

<210> 3591
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A7

<400> 3591

aaancaaaaa tcccgggccg acccacgcgt ccngacgaac tgaagaaaaa cctctcggaa 60

gaagatgagc aattggaaaa ctcttctcct tcgcatcggc gaaaagggac ctgagtacgg 120

cacttcctcc gactacaaag accacatcga gacttgtttc ggtgtcattc gtagagaaat 180

cgagcgttct ggagatcaag ttttgccttt tctactacaa tgtgctgaac aattgcctca 240

taagattcct ttgtatggga ctttgattgg tttgttgaac ttggagaatg aagattttgt 300

ccaagaagct agtagaaagt gtccacgcta atttccaggt cgctttagat tctggcaact 360

gcaacagtat ccgtatattg cttcgcttta tgacttccct gttgtgcaat taaggttatc 420

aaactngctt ctttgnattg ncgnccttcg aaaacattgg c 461

<210> 3592

<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E8

<400> 3592

ctcttcttct gcatcgtctg cttcatcact attgaaggca ctcgcttcaa ccgtcgctct 60

tctcagctca ctcagagatg tcgttctcgc tgagaaagct actggttccg attctggttt 120

tggtactgtt tctggatctg tgcgttgaat ccggattctc tcagtcaacg ccggcgcgtg 180

acgatcacgt gcatcatcac ggtggtgggt gtagtcattc ncatgaccac gaccacgacc 240

acgatcatga tcatcatgtg angaagacga cggcgaaggt ggagatgaag ttgccggang 300

aacttgctga ataggacgat atgagattat gtgggtttgg ggccttgtct tcatgatcac 360

natcacgaat caangttcac tcntacgggg gtttgctcgg tgggcttant gcattgggaa 420

<210> 3593
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A12

<400> 3593

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tggatctctc atgaaatcgg tggagctccc ccatatcttt tttaaatagc tttcttcttt 120

tggcccctta cccagagata gattcttata tactactgag aatcttcaat ttctgcaact 180

tttgtatctc ttcctgatgg agtcttcaag tccccaccat agtcacattg ttgaggttaa 240

tgttggaaaa tctgatgaan agagaataat tgtggcgaag taaagtctgt ggagaagcac 300

catgtgggtt ttcaagattc taanaatgct tccggggatg ctcacgaanc gctctgcttc 360

tatgcggnag ctttgtatcg ccgtcgtgct gtgtcctagt gttcatgagt gttgaaagtt 420

gt 422

<210> 3594
<211> 423
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A2

<400> 3594

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caatatttat agataagata acaacaatat gaagcattct cacgttttgc ttcttctatt 120

tgttcaagtc attgcccttt tgcctctcct ttgtctatcc gacgattttg ttaactctag 180

agctacttat tatggcagcc ccgattgcaa agcaaatcct cggggacatt gtgggtatgg 240

ngaatttgga agagatatca ataacggtga agtgagtggt gtttcatggc gactatggaa 300

caaatgggaa ctggctgtgg tgcttgttac cacgtgaggt gcnaagatac annacggggc 360

cntgaggnan gggngtctac gtcagtggcn anggacntcc cggaggaaag gagatgggga 420

cng 423

<210> 3595
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A3

<400> 3595

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gagatgaaca taatgaatga ttggcaagag cagacgaaaa aagccattga agaagcaacc 120

accnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncct 240

cgcggtgcag gtaacaagaa actcacacct tgtggctgag actagagacc gagacacaca 300

ttatttaaca ctttctccct ctcttttgtt tcttatttcc aaaacctctt cgttcactta 360

ttataatgtc tgtaatgtna tcatctttct actcttaagc cttagactac nagattttgg 420

attcacgga 429

<210> 3596
<211> 426
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A7

<400> 3596

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cggcgaaaag ggacctgagt acggcacttc ctccgactac aaagaccaca tcgagacttg 120

tttcggtgtc attcgtagag aaatcgagcg ttctggagat caagttttgc cttttctact 180

acaatgtgct gaacaattgc ctcataagat tcctttgtat gggactttga ttggtttgtt 240

gaacttggag aatgaagatt ttgtccaaga agctagtaga aagtgtccac gctaatttcc 300

aggtcgcttt agattctggc anctgcaaca gtatccgtat attgcttcgc tttatgactt 360

ccctgttgtg cagtaaggtt antcaacctg cttctttgat tggtcgtcct ccaaacattt 420

gctatc 426

<210> 3597
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A9

<400> 3597

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aaaccattaa tctctcttct ctctagcata acctctctca gatggcttct aactatgata 120

agcttacttc ttcgagagta gccatcatcg gtgctggtgt tagcggatta gcagccgcta 180

agaacttagt tcatcacaac ccgaccgtat tcgaagcctc ggattcagtc ggaggtgttt 240

ggaggagctg cacttacgag acgactaaat tacaatcggc tcgagtcgat tacgagttct 300

ccgactttcc atggcccaat aatagagatg acacaacttt cccaccttac cttgagatat 360

taagattact tggaatctta tgccaaacat tttgatcttc gcaaattcat gaantttggc 420

tcctaangnc atcgaagtta aggttcatcg ggt 453

<210> 3598
<211> 428
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B10

<400> 3598

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tcttctctcc tttaccaccc aatgggctac actaatgcca tctccgtcta cttttctcgc 120

ctctcgcccc cgtggaccgg ccaagatctc ggccgtggca gcaccagtga ggccggctct 180

aaaacaccaa aacaaaatcc acaccatgcc accggagaaa atggagatat tcaaatcttt 240

agatggatgg gccaaggatc aaatcttgcc tcttctcaaa cccgttgann caatgttggc 300

aacccgcttc tttcttaccc ggacngcggg ccttaccctt ctccgacgtt taccggacca 360

ngttcgtgaa gctgacggaa angaacggnc ctcgctggca gacgaatact ttcgtggtgt 420

tggttgga 428

<210> 3599
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B4

<400> 3599

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agatggcttc ttttgaaatt cccttcagtt ttcagccttg gttggttcca gaagaaaggt 180

ccaagtgaag aagaggtaga aagcgctacg tttaagatgt ggttcatagg tcgtgggtac 240

agcnaaagag agtctagctt cacaaggana aacaaancct gacttggaaa tcattacnag 300

aatttcagga cctganattg ggtatatnac caccccgata acacntgttc aaatgcnggn 360

ttggataagt ctgggccaag cgcgaaaagc ctagnttaaa gggaggantn ctacacaccc 420

gggcaatngt gtttgg 436

<210> 3600
<211> 409
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B6

<400> 3600

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gacgatgacg caattaaata ttgcggttgt ggttgtagtg acggttctta ttggaatgtt 120

gagatcatcg gaggctcaac ttcaaatgaa tttctacgcg aagagctgtc caaacgcaga 180

gaaaatcatt tcagatcata ttcaaaatca tatccacaat ggtccttctc ttgcagctcc 240

tctcatccna atgcacttcc atgattgctt cgttagggga tgtgacggat cggtgttgat 300

aaattcaacc atctggtaac gcaananaaa gatgcaccaa ccganttcta gcaacttnga 360

gaggattcgg tttccgtgng aaaaggatta acggctctgc cttgaaanc 409

<210> 3601
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B8

<400> 3601

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ttcactccct tctcctgctc tccctcgcct tcgtgtttca tgtcaagcct cctccgtcac 180

ttcgccttct tctccttccg atgtcaaagg aaaatctgac ctgaaagact ttctggcaat 240

agatgatttt gacacagcca ccattaaaac gattttagac aaggcttcaa gaggttaagg 300

ccttgctgaa atcaggggag agaaattatc tacctttaa agggaagtct atgtcnaatg 360

atcnttgcaa aaacttccaa tgagggactc gggtttcgtt tgaaanctgg gtttttcctt 420

g 421

<210> 3602
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B9

<400> 3602

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gagaacaacg gntccagatc cgattccgaa tccatcaccg ctcccaaagc tgattccacc 120

gtcgttgaac cgaggaagat agctctgatc accggaatca ccggncagga cggatcatac 180

ctgacggngt tccttctcgg naaaggctac gaagttcatg gtctgatccg tcgatcatcg 240

aatttcaaca cccagcgaat caaccatatc tacatcgatc cacacaatgt caacaaagct 300

ctgatgaaac tccactacgc cgatctcanc gacgcttcnt ctctccgtcg ttggntcgat 360

gtgatcaaac ctgacgaagt ttanaaacct agctgcncaa tctcacg 407

<210> 3603
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D11

<400> 3603

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tccttattca ggaaacttta gcaccattgc tgttcaatgt ctgcagaagc tacccacaaa 180

tagcagcaag tatacttact cttgcgatgg tcatactttc aatttccttg ttgacaatgg 240

ctttgtgttt ctagtggttg ctgatgagtc caccggaaag aagtgttcct ttcgtgtttc 300

tcgaacgggt caaggaagac tttaagaagc ggtatgaagc gaagtataaa agaatgatga 360

gccgacatcc tcttgccgga tgangacgaa agatgatgat ttgtttggg 409

<210> 3604
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D8

<400> 3604

aaaataaata aaagatctaa ctttgacggc tctcttaatc ttactcactc cggttttaag 60

tcggaataga ctgatgggag cttgatggtt attgttagat cagatgtgga tttaaagcct 120

tcgctgaact aacaagtcta tggaagaagc aaagaccctt gttttacact gtatgttgtg 180

aggaatttgt ctgattttgg gtgataaagg tgaagtcttt gagtttgtaa ttttgagata 240

agattggatg gtgggaagag aggatgccga tggggaatga tgaagctcct cctgcgntct 300

aaagaaaatg ttttgggcgg tctgccctcc tggtcctgct tcacgggacn gncatcanca 360

agttcctgaa nggtgacgaa gcaaangcct gaacatttcc ggtntgc 407

<210> 3605
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D9

<400> 3605

aaatccaatt gaccgaataa aatccagtaa accgatccat aaaccaaaat tggaagaaaa 60

caatgcctgt ttaataggtg ttgaaacttt gctgaaaaaa aacgaagcga gcaccctcta 120

aaatgccttc gatttctctg gcgccattga tttagttttc tctctctgac tacaaagtat 180

ccattcgttc aaaccagttt cttcccattt tcgatttctg tcaaaattca ccaaccaact 240

ccaaaaactc tgttattgaa taagtttctt gatcttaaaa caaacgatct caaagaatgg 300

cacgacacga tcctaatcca tttgctgatg aagagatcaa tccttttgcg aatcatacaa 360

gtgttcctcc tgcgagcaac tcttatctca agccaanttc a 401

<210> 3606
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E10

<400> 3606

acgcgtccgc ccacgcgtcc gcccacgcgt ccgaaaaaaa gggttaggtg gatctctcat 60

gaaatcggtg gagctccccc atatcttttt taaatacctt tcttcttttg gccccttanc 120

cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180

cctgatggag tcttcaagtc cccancatag tcanattgtt gaggttaatg ttggaanatc 240

tgatgangag agaataattg tggctagtaa agtctgtgga gaagcaccat gtgggttttc 300

anattctaag aatgcttccg gggatgctca cgaacctctg cttcatgcgg aagctttgta 360

nngccntcgg tgctntgtct actggttcat gagntgttga a 401

<210> 3607
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E11

<400> 3607

acgcgtccgg tctctctctc tcgggtcaaa attagggttt cgtttcacta tccagagtgt 60

atacaaaggt tgttgtggag cttttatcag atcacaggaa taagatggag gtatttggaa 120

aatctcccat ggttgttaca tctgccaatg ttatttactt gtctgcaatt ctgggtcgcg 180

attgcgatgg acacaaatgt gattggaaat gtgagaatga aaatgtttgt gggaatatgt 240

atcgctgcaa actaactgga ctaactcatg tctgcgacaa gaactgtnac cagcggattc 300

tctatgataa ccatagctct ttgtgccgag ccantgggag gattttccct ctctcgtccg 360

tcganggagc aangcggttt aaagggtgtt cgggganggaa agccttga 408

<210> 3608
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A11

<400> 3608

ctctgcanct gatcgatata caaaggaaan aagcagtatt gttgtgattg gncttagtat 60

tcacacagct cctgttgaga tgcgtganaa gcttgctata ccngaagctg aatggccaag 120

agctattgct gaattgtgtg gtttgaatca tattgaanaa gctgctgtgc ttagtacntg 180

taaccgtang gagatttatg ttttancttt atctcagcat cgtggagtta aagaagttac 240

tgaatggntn tcaaagacca gtgggatccc aagtttcaga gatttgtcaa cacngttttc 300

tgttgtacaa caancgatgc tacacaacat aaatttnnga gttctcaanc tggtccntgg 360

actcctcttg t 371

<210> 3609
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B8

<400> 3609

acgcgtccga ggnaagcaag tggtatcatc aacaaacaaa gcacttctct tttgattcga 60

ttctctcttt accttgaagc ttcaatatca accaaatctt ttttctcaaa atctcaaaga 120

atctctcaaa ctcagtctcc tatctgtctc tctgcaaact attaccaacc agataattta 180

gatatggaag ctactcagaa acatatgatt caagaaggat cttcaatgtt ttaccatcaa 240

ccatcttcag tcaaacaaat ggacctttct gttcagacat ttgattctta ctgcacactt 300

gaatcctctt caggcaccaa gtctcatcct tgtcttaaca acagaaacaa ctcttcttca 360

nccacaagct tttcctctaa tgaaagtccc atttctcaag ccaacancaa cancttatca 420

aaggtttaac aatcantccc ctggaagaaa acaataactc ctccccttga ancg 474

<210> 3610
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C11

<400> 3610

naaactgtta cgcctggccg taccggtccg gaattcccgg gtcgacccac gcgtccgaac 60

atggggtacg acggctccag gtttgcctta cgtanacgag gcgataacta atgctggaaa 120

ctggctcatt gggggtgatc ttgaggttct tgagccagtg aagtacaatg atgggcttga 180

tcgtttcagg ctttcgcctg ctgagttacg taaagagttg gagaagcgta atgcggatgc 240

ggtgtttgct ttccagctga ggaatcctgt tcataatggt catgctcttc ttatgactga 300

tactcgtagg agacttcttg agatgggtta caaaaaccct attcttttgc ttcatccgtt 360

angtgggttt acaaaggctg atgatgttcc tttagattgg angatgaagc aacacgagaa 420

ggttctanag gatggtgttc tcgatccgga gactacagtg gtttcgatat tcccgtcacc 480

tatgcattac gctgggtcca accgaa 506

<210> 3611
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C3

<400> 3611

acgcgtccgg ttttgagaat ttgacaaaaa tttgtttatg taatcttagt tttcgctgat 60

tttgagtaag ttatcgacat ggatattgat gtcggaccag ttgatccatc tgtcctatac 120

gagcaagacc tccatgtttc ttctgctgtt tgggaaggac aggaacgagg tctacttcgt 180

tgtcaagaac acacttcatt gctacatcaa tggaaactca ctgatgaaca aattaacctc 240

gtggacaaag ctggtttcgg ttactttcgc aaaatcggtc caatgaagtt taaacaattc 300

actgatctcc tgcacttgtt gagcgatgga gaagagaaac caatactttt catccttcct 360

ttanggagaa aatgactata accttaaacg aagtttgcct taantaactt gggacttgag 420

aattgatgga gattccaatt gttgggtccn aaagtttggn gatgaaggtt g 471

<210> 3612
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C8

<400> 3612

actgtttccc tggccctacc gagtccggan attcccgggt cgacccacgc gtccggctac 60

gacaaagaag gacacccagt ttgttacaat gcttatggtg tgtttaaaga gaaagagatg 120

tatgagagag tgtttggtga tgaagagaag cttaacaagt ttctgagatg gagagttcag 180

gttttggaga aaggtgttaa aatgcttcat tttaaacctg gtggtgttaa ttccattatt 240

caagttacag atcttaaaga tatgcctaag agagagctta gagttgcttc taatcagatc 300

ctctctcttt ttcaagataa ttaccctgaa ttggttgcta ctaagatatt cataaacgtg 360

ccttggtact tcantgtgat ctactcaatg ttcagcccat tcctgactca agagaacaan 420

gagcnagttt gtgatgtcca aagaaagcaa tgcancanaa acactcnaaa attncatnag 480

gccaaaaaat tcccgggcna nacggggggc ctnaaccctt ccaaaag 527

<210> 3613
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D10

<400> 3613

acgcgtccgg ttttgaaagt gttcctgaaa gctccattac aaaactctcg aggtctgaga 60

ttaagcagga attagtgaac gctcaaagaa agcacttgga acaaatgata ctgcccaatg 120

ttttggaact agaggaggtt gatccctttt tcgatcgtga ctcagtggat ttttctctac 180

gcatcaaaaa acgccttgag gaatcaaaaa agctgcagag agatcttcag aatcgtatca 240

gaaaacgtat gaaaaagttt ggtgaagaaa agctttttgt tcaaaagact ccagaaggtg 300

aagctgtcaa gggatttcct gaagcagagg tgaaatggat gtttggagag aaagaggtgg 360

ttgttccgaa agctatccag ctccatctac gccatggttg gaaaaagtgg caaggaagaa 420

gcaaaagccg attttaaaca gaaacntttg ggaaaagttg aattttggca aacaa 475

<210> 3614
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D3

<400> 3614

acgcgtccga acaaagagag agagagagag agtgttatgt tatgtcttta ttgtcaatta 60

gtaattttct tcgaattaga tgttgtttct ccgtcgaatc gccgtcgtct tctttgtctt 120

cacctctttc tccgccgctc agaactccac gtgtcctctg gacttttccg tccttgaacc 180

gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggctacg 240

cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300

tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360

ccgattcaac tgcggtttcc aanacgccgg tggatttcgc aaggggtgat ggacatcaac 420

caaccaaggt ctcaaattcc aantcccttа accctaaatc ctccctcggc nacaacggcc 480

aatccgctg 489

<210> 3615
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D4

<400> 3615

acgcgtccgg tgattcatta accacttcat gataattata atcttccttc tcttctgacg 60

attgaattac atcttcttct gatagctgtt ctgatttttt tctgtataca aagtaaattc 120

aaagtggaca aacatcggta ttttaatctc ctctcgataa tgaagtgttt cttgttctct 180

ggtggggata agagagggga acagaagacc cctatttcgg tttcattgac ctctatcttc 240

tctgaccgcg aaataaaccg aagcgggtca gagttcaact ctcgtgatgt ctctgggacg 300

agcacagaat catccatggg gaggaagaac tcgtaccctc cggtgtctac tanagcaaag 360

taatctcaga gagttcagca ttactgatct caantctgca acaaagaact ttagccgatt 420

ctgttatgaa ttgganaaag gcggtttcgg ttgtgtcttc aaggggcac nattg 475

<210> 3616
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D5

<400> 3616

acgcgtccgc tcgcttctat gctttttgga tcagaggaat gtctagagtg gaagataagg 60

tataaagtgg ctctaggtat agctgatggt ctgagttatc ttcataatgc ttgtccaaga 120

aggatcattc accgtgacat caaagcttct aacatattgc tcaaccacga ttacgaagct 180

cagatttcag atttcggact tgcaaaatgg ctcccagaga actggcctca ccatgttgta 240

ttccccattg aaggaacatt cggatatcta gctccagagt atttcatgca cggcattgtt 300

gatgagaaga ttgatgtgtt tgcctttgga gtattgcttc tagagatcat aaccagtcgc 360

cgagctgttg atacagcaaa gcangcaaag cattgttgca tgggcaaaac cttttcttga 420

gaaaaatanc atgggaggac attgtngatt ctccgntaag gaaatatgtt aaaccaac 478

<210> 3617
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D6

<400> 3617

acgcgtccga tcannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn ccaccaaggc aacagaggag tttgtccttg ttgtttaaga 120

gataaactct ctcgattacc taatactacg tcgtattaca tcgttcacag annnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cggtgaagga tcatcggaga 240

gctggttcga tgtcgatgtc tttcgctgtt agggaagctt taaatggtaa tctgatcgaa 300

gctttaggtg gaggattaat gaaaagcaga tctatggctc atgttcccaa ggattatatt 360

gttanggatt tgacgaaaga agaagacggg gaaattgaat ctacgacggt taagaagaag 420

actgggtttt ggactaantt gctcacctaa agggaaaggc ggtggcn 467

<210> 3618
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D7

<400> 3618

acgcgtccga gaaaagaaaa aattgcaaag agaggaagaa caaagaaact tgaatggaga 60

agagaaacga gagacaagtg attcttttc ctctaccatt acaaggttgc ataaacccta 120

tgcttcagct agcaaagatc ctttactcaa gaggtttttc gatcaccatc atccacacgc 180

gcttcaacgc gcccaaatct tcagaccatc ctctcttcac tttcttacaa atccgcgacg 240

gcttgtctga atctcagact caatctcgtg atcttttgct tcaactcacg cttctcaaca 300

acaattgtca gatcccattt cgagagtgtt tggctaaact cattaaacct agttcagatt 360

caggaacaga ggataggaaa attanctgtg tgatcgatga ttccggttgg gtttcacaca 420

atccgtggcg gaaagtttaa acctcctcga tttgcctccg tgctaaaagt tc 472

<210> 3619
<211> 543
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E1

<400> 3619

gtnccctgtt cgtacggccc cggaattccc gantcgaccc acgcgtccgc tcgccgaaca 60

agcagagcgt tacgaagaaa tggttgaatt catggagaaa gtcgcgaaag ctgttgacaa 120

agacgaactc accgtcgaag aacgtaatct cctctccgtc gcttacaaaa acgtcatcgg 180

agctcgtcgt gcttcgtgga gaatcatttc atcgatcgaa caaaaggagg agtctcgcgg 240

taacgatgac cacgtttcgt tgatccgtga ctacagaaag caaaatcgaa acggaacttt 300

ctgatatctg tgacggaatc cttaagcttc tcgatacgat tctccgttcc cgctgctgct 360

tctggagatt cgaangtgtt ttatctgaan atgaaaggtg attaacatag gtacttggct 420

gaattcaaat cctggtcaag aagaaggaaa gatgcctgcc ggaacatact ccttactgnc 480

ttacnaannc tggctcaang gataattggc taaattcctg aaattggggt ccaangccaa 540

tcc 543

<210> 3620
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E11

<400> 3620

acgcgtccga acagcaatgg aagcatttgc cttgacattt tgaaagaaca atggagtcct 60

gcactcacca tatcgaaggt tttgctttcg atatgttcat tgttaacgga cccaaaccca 120

gatgatccat tggttccaga gattgctcac atgtacaaaa ccgatagagc aaagtatgag 180

tctactgcga gaagctggac tcagaaatat gcaatgggat gaaagtttgt gtcctttgat 240

ccctcacaga ctcggtttta nnnnnnnnnn nnnnnnnnnn nnnnnngact tcttcacata 300

gggatcttcc atgaaataag ttagattcct atgttttatc atctctttgt ttgaaacctc 360

tttaatctca aacaaaaaca ttacttcacc tctttattat ccatatgttc cctatctttg 420

tttctatgcc ttttcccaaa aaattataag aaaaattatt ta 462

<210> 3621
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B7

<400> 3621

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tgattcgatt caagccaaga tccacgtata aagatatgtt catgcgtaga ggtttggtat 120

acaacaatat atacatataa tagtttgtcg ttatgcctgg ctccctgtat gccacgagtg 180

gataccgatt ttggttttaa aatcggctgc cggtggcgta caaggagtca agcatgacca 240

gaagcatatg gtaactcaat tgcatctaca actaaatatg aaatatctag ttatgtatat 300

ggtttgtgtt ctataagatg ttttcttcga attttgattt ttgtgttcat ttgaataagc 360

aaacagaaat aaaaccaagt tttgtagttt tttgctttct ttctgatttg gtccaatggc 420

tttgattcag gtttgagttg atcctttaaa ttcatattga nttaaatttg a 471

<210> 3622
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A2

<400> 3622

acgcgtccgg tttcaatttc taaaattctc ctctctcaac gcaatcacca aatccaaatt 60

tagggtttct tttctctttc tgcgatcgat ctctgaaaac tcataactgt tgtttaatcg 120

tgaagatggc atcaaacgga tctttctctg ctcagagaaa cgcaaacgct agaacaacga 180

tgaagagaag aagcgacaat cgcggttacg gtggcggaat cggaggttat caagaggaga 240

cgaaccgtta cgcgccgccg caaaaacgtt tcagatcaca agcgcaacag caattccgat 300

ctggtcataa tcctctgtat catcatcatg gtaagtaata ataataacgt gtctagggtt 360

tcttctcaat catataacaa ttgcggtgtt gatgtgattg gttccaaatc aagttttgcn 420

attacgttac aatgantcca acacaacaaa ttacangaaa cccttggttg ccgggtaagg 480

aanc 484

<210> 3623
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A3

<400> 3623

ctggttccct gtccgtancg ncntggaagt ccngagtnca cggntccact canncatntn 60

ntaagatctg aaancatact catggacnta gatggccatg tgatgttaac tgattttggt 120

ttagcaaaag aatttgaaga aaacacaaga tcaaactcca tgtgtgggac tacggagtat 180

atggcccctg agattgttcg tggaaaagga catgataagg ctgccgactg gtggagtgta 240

ggaatccttc tgtatgagat gctcactgga aagccgccgt ttctcgggag caaaggaaag 300

atacagcaga aaatcgttaa ggacaagatc aagcttccac agtttctgtc taatgaagct 360

catgccttgc tgaaagggct gctgcaaaaa gagccagaaa ggagactggg aagtggaccg 420

agcggagcag aggagataaa aaaacacaaa tggttcaaag gcgataaact ggaagaaact 480

gganggctag agaaatncaa ccaaatttca agcccggcgg tttccgggaa a 531

<210> 3624
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A4

<400> 3624

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angcattctc tcaagtgaca acgaaggcan cttcagagga cctttgacac tctctctcaa 120

acaaggatct ttgttggtga tgagagggaa cagtgcagac atggcaagac atgtaatgtg 180

tccatcacaa tgacaaaaga agtaagcatc acattctttc gtattcgacc ttgacacata 240

tcatagccat tcacaaccca gcagtcctcg caacgacggt gtcatgacaa tgtggcnncc 300

ctaccaantg acaacaactc caatcctcaa ttgggtaaga tnattcaant tgacatgngt 360

gccaaaaact tggagtcccn acgtcctcca attggtcang attgnaccaa caaccgggtt 420

caaccaangg attttcncaa tttcccaagg ttaatgggaa acccgttggg gggnaccggg 480

gnttttccta acaaaggggc cccgg 505

<210> 3625
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A5

<400> 3625

nccgagagat cttaaacctg aaaacatact catggacgta gatggccatg tgatgttaac 60

tgattttggt ttagcaaaag aatttgaaga aaacacaaga tcaaactcca tgtgtgggac 120

tacggagtat atggcccctg agattgttcg tggaaaagga catgataagg ctgccgactg 180

gtggagtgta ggaatccttc tgtatgagat gctcactgga aagccgccgt ttctcgggag 240

caaaggaaag atacagcaga aaatcgttaa ggacaagatc aagcttccac agtttctgtc 300

taatgaagct catgccttgc tgaaagggct gctgcaaaaa gagccagaaa ggagactggg 360

aagtggaccg agcggagcag aggagataaa aaaacacaaa tggttcaagg cgataaactg 420

gaagaagctg ggaggctaaa gaagtncaac caagtttcaa gccngcggtt tccg 474

<210> 3626
<211> 482
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A6

<400> 3626

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aagagaaaga gatgtatgag agagtgtttg gtgatgaaga gaagcttaac aagtttctga 120

gatggagagt tcaggttttg gagagaggtg ttaaaatgct tcattttaaa cctggtggtg 180

ttaattccat tattcaagtt acagatctta aagatatgcc taagagagag cttagagttg 240

cttctaatca gatcctctct ctttttcaag ataattaccc tgaattggtt gctactaaga 300

tattcataaa cgtgccttgg gtacttcagt gtgatctact caatgttcag cccattcctg 360

actcagagaa caaagagcaa gtttgtgatg tccaaagaag gcaatgcagc agaaacactc 420

tacaagttca ttangccaga aagatatccc ggtgcaatac ngtgggtcct aaccctccca 480

ac 482

<210> 3627
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B1

<400> 3627

ttcgcatggc cgtggaagtc ccgaatcgac ccacgcgtcc gcccacgcgt cngatnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnttat ccttatccga taaacccaca aataaagaca gactcttttg ttctttaaac 180

agagattgta aatccagagc cgccggaaaa tacaaccgcc ggtttactct caggattagt 240

tgatattatt cgattttaaa aatcagtagg aagaagatga agtacgtgct tgtaacagga 300

ggtgttgtga gtggattagg gaaaggagta acagcaagta gtattgggtg ttctccttaa 360

agcttgtggt cttcgagtta ctctatcaaa atcgattctt atctgaacac tgatgcctgg 420

aactaagtct ccaatttgaa cacggtgaaa tttttgtcct ggacgatggt ggtgaaggtg 480

gtcntggatc ttgggaacta caaaaggttc caa 513

<210> 3628
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B10

<400> 3628

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cctgttcagt tacagaggtt ctggatttgg gcaaagagac aaaaccatac ctatcgtccc 120

aatcgccccc ttacgcctca agaggaatta caaccggttg gacaaataag ggaagcatct 180

aataaggcaa acactgcaga actcaagctt tttttggaag tagagcacct ggatttacgt 240

cctattcctc ctcctgaaaa atcaaaagaa gatattcttc ttttcttcaa gctttatgac 300

cccgagaagg cagtattaag ctatgctggc aggctgatgg tgaaaagttc cagtaagcct 360

atggatataa ctggaaaact gaatgaaatg gttggctttg ctcctgatga agaaatagaa 420

ctttttgagg aaatcaagtt tgaaccttgt gttatgtgcg aacacttgga taagaaaact 480

tcattcagat tgtgt 495

<210> 3629
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B11

<400> 3629

nggccgcaaa ggtccggaac tcncgggtcg acccacgcgt ccgcntttaa ntgaaatcgg 60

tttcgagaga cagtgagacg aanatgttaa ggattttggg gagaagagtt gtttcagctt 120

cgaaagagct tactagtatt caacaatggc ggatccgacc aggaaccgat tctcgtcccg 180

atccttttcg aactttccgg ggactacaaa agggtttctg cgtgggcatt ttaccggacg 240

gagtcgacag aaattcggag gctttttcta gcaattcgat cgccatggaa gggatcttat 300

cggagcttcg ttcccatatc aaaanggtat tggccggang tggagaggaa gcggttaaga 360

ggaacagaag cagaaacaag cttttgccta nanaanggat gatcggctac ttgatcctgg 420

ttcttccttt ttggaactct ctcagcttgc aggacatgaa attgtatgag gagccctttg 480

ccctcaaggt gg 492

<210> 3630
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B2

<400> 3630

acgcctccgg gancatttgn ttcaccctca tcaggtgtga tgcctgattc caccaatcct 60

actatgagtg tgaatgccca aggccatgaa atccaaaatg gtggtggaac aacaagccag 120

ttctcatcgg ctttgtgggc attaatggac tcaatacctt caacgccagc ctctgcgtgt 180

gagggtcccc ttaaccgaac ctttgtacgt atgtctagct tcagccgtat gangttcaat 240

ggaaaggcta atggaacgcc agtgagtact accatagcaa agaanggtat taganacaga 300

ngttttcttc tattaacaat ccgtgggtgc tttgtgtgcc atccttcctg gggtgttggt 360

anccacaatt ccgagtctca aggttagaaa gtcctcccct tgaaangact aattggtggg 420

ttccccttgg gaactcctta actaactggg taagtttaag aangaagaaa cccaggattc 480

cacattaatt gttcaatggg gaattattga 510

<210> 3631
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B4

<400> 3631

gcctgtccct accgctccgg aaattcccgn gtcgacccac gcgtccgggg anctctcatg 60

ctctacgtat ccaagatgat tccagcctct gacaagggta gattctttgc cttcggtcgt 120

gtctttgctg gtaaggtttc tactggtatg aaggtcagaa tcatgggtcc caactatatc 180

cctggtgaga agaaggatct gtacactaag agtgttcaga ggactgtcat ttggatgggt 240

aagaggcaag agacagtgga ggatgtccct tgtggtaaca ctgttgctat ggttgggctg 300

gatcagttca tcaccaagaa tgctacattg actaatgaga aggaagttga tgctcaaccc 360

attcgtgcta tgaagttttc tgtgtctcct gttgttcgtg ttgctgttca gtgtaangtt 420

gcntctgacc ttcccaagtt ggntnanggt ctcaagaagt tggncaaatc cgattctaan 480

ggttgtgtgt acaatgggag gaacaaggtg ancacattgt tgcc 524

<210> 3632
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B5

<400> 3632

anactcgcgg gtcgacacan gcntcnnann agagtcacta tcatctctta acaacacaac 60

acaactttga atttttcacc ctcactttca tttatctcaa atctccttcc agaaaagcga 120

gggaatagtg ttgttgagag gtttgtgatt tccttttgaa aaaatgatgg cttgtggctt 180

aagcaagagc cttggcttgt cttcctcctt gaagaagcaa caaggcatag tgagtatcct 240

tggtggcatt tcgtcgaaca cttcatctgc accttcactt aggcgaactt tctccgccga 300

tttgtcctcc aagacttggg tttcccaaaa tgggttttct cctatgaaga gaatctcttc 360

ctcctgagaa gcttcgtcct gacgaagaan atcagnanga angaatcaan nttcgggant 420

cnatntcctg gggcaacaga ttcaacaang acaaggaacg ataagcnnga agngaaggan 480

cagatcaagc cggggtcaat tccgga 506

<210> 3633
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B6

<400> 3633

aactgtttcc cctggcccta ccnagtccgg aattcncgcg gtcgacccac gcgtccgccc 60

acgcgtccga tttggtgtac ctgttcagtt acagaggttc tggatttggg caaagagaca 120

aaaccatacc tatcgtccca atcgcccccc tacgcctcaa gaggaattac aaccggttgg 180

acaaataagg gaagcatcta ataaggcaaa cactgcagaa ctcaagcttt ttttggaagt 240

agagcacctg gatttacgtc ctattcctcc tcctgaaaaa tcaaaagaag atattcctcc 300

tttccttcaa gcctttatgg accccgaaga agggaantat taaccaatnc cnggcaaggc 360

tggatggtga aaagttccaa gttaagccta atgggatata actgggaaaa actgattgaa 420

aatggttggc tttgctccgg atgaaagaaa ttanaacttt tganggaaat caagnttgga 480

acctggggta agttgcaaaa ccttgggtaa aaaaacntca atcaaaat 528

<210> 3634
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A11

<400> 3634

gtaaangtcc ggaaagtccc gggtcgacnc acgcgtccgg ctctctttct ggtacactca 60

cctaccatta ctataagtct gaaagagtga ttgaaaccca cctcgaaaaa tctatccttt 120

tttttgtttt ccttctccgg cgaatccccg gggagattgg taatcggtaa tcacggctat 180

ttacgggata aagccacggc ctttgagctt tcatgtccaa cgaaagggtt gtttaatcat 240

aactaatcct ttgcctcacg gaggacgtgg agctctgccg tctgaaggcg gcagtccctc 300

cgatctcctc ttcctcgccg gaggcggttc cacaaatagc cactaaccct aacccttttt 360

ctaattaggt ttttagttct taagagtcct gtattaatct gttatttcga gattataata 420

tttgtgagca atgttgttga agatnaaaag agtccaacag ttgtatcgaa ttatcaaaaa 480

gatgaga 487

<210> 3635
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E8

<400> 3635

acgcgtccga gaacaaccaa atttgtttcc gtcttctgct aacatatcct ctttttcatc 60

tgggaaccct aatttcttga ctaacttagg gttttattta tccatttgag atactctgta 120

attgaaaggt tgaattttta gaagagacat gggaggttcg tcggagacaa agatcttaca 180

agaactcata ctttacgcgg cgagcgctgc tttcagctgc ttggttctct ttgcgggtct 240

tcgtcatctc gatcctaatc gtgaggcttc taaaaaagct ctcgagcata agaaggaaat 300

ctctaaacgt ttgggtcgtc ctcttgttca gaccaaatcc atacgangaa tgtaattgca 360

tgtgatgttg ataaatccaa gaaccacatt tgatgttgga gtttgggttc aattggaggg 420

gttggagacn tccaagncag gctttgtatg aancttgtga tttaaccacg gaaaaaga 478

<210> 3636
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E9

<400> 3636

acgcgtccgg aaaggacgaa gaagagaaga agaagaacct tacaattgct tttgtaaata 60

ttgtaggtag tttaaggacg tcacttccta catacatgga tttatgtgga actcagatgc 120

tgcgcctctc atcgcctcat ttcaaaaccc ttcatttggt gaggcatgca caaggagtcc 180

acaatatagc attagaanag aagggagaga aacctgaatc agaaaagctt tttgacgccc 240

acctttctcc aaagggtttg caacaggttt cggaaaggcg canccaaatc cttgaatcag 300

gattacttan cactgtcgag ttagtgataa cctcnccgct gtgcangagc antggannct 360

tcaataggaa tatttagggg gacaaangat atgtaaatat atcccgangg actttgcaaa 420

agcctaacaa cttnccctcc aattngtagc ancttgaga ttctgttnaa gaacgc 476

<210> 3637
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F11

<400> 3637

acgcgtccga tacnctcttt tgatggctgg aggagagaaa agaagaggac ttagtaaatc 60

ttgtgctctt cccatagtga ttgctgggat agagagatat gcattcaaag gagttgcatc 120

aaacttagtg acatatctaa ctgatgtagt gaagatgagc aattcaagag cagccacgac 180

tgtgaacact tggagtggct tcactttcat gttgcctctc ttctctgctc cttttgccga 240

ttcttattgg gacagattct tcaccatcct tgcttcttct tctctctact ttgtgggtct 300

agtgggattg acatttacgg catttgctgg gtcacgttcg actacanaaa caatctctcc 360

tttaacttcc ccacaactca cttttcctcc gtcgctccta ggccttgggg tccttaaacc 420

ccatcctcta caagnccttg gtggctgnac aagctccgac tacgaacctt t 471

<210> 3638
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F4

<400> 3638

ttccctgtcc tacngctccg gaattccgag gtcgacccac gcgtccgnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnattc atctaaaaca atttcgatcc atttacacat 120

aaatatatgt aactggccgt agaagaaaca cattgaagga agannnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn tgcggacatt tccagangca gttttccaaa gggctttgtc ctttggnact 300

gcttcttcgg ctttcagcat gaanganccg gtgaangnag aacggcagan ggcccnacga 360

tatnggaaca cattttccca cacctttggg aaaaatcnac cgnatttanc caatggctga 420

tgtccccngt tgattcagtt atcaacctta cnagggaana atgttcaacc tnatngaacg 480

aataatggga aatggnccnc taacagaatt ttcccaattc cttggacccc n 531

<210> 3639
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F8

<400> 3639

acgcgtccgc ccangcgtcc gcggacgcgt gggttcgact tttcctctct ctcttatata 60

aattatatat tttgctttgg ttttttttt ttcaccggat cgatcgagaa gagagaaaag 120

ttcatcttct tcttgttctg attgtttgac aagttttacg acaatggcgg tttacggcga 180

gaagaagcat tggtggctcc gcaacaagaa gatcgttgat aaatacatga aagaagcaaa 240

gagtttaata gcgagtcaag atccaaacga cgtgaaatca gctctaaatc ttctggaatc 300

tgcantctct gtatctcctc gttacgaact cgctcncgaa ctcaaagcca gatcccttct 360

ttacctccgt cgatacaaag acgtcgccga tatgcttcag gattacattc ctagtcttaa 420

attagccggc ggcggcgaag attccggtat cngttcatct gagcttt 467

<210> 3640
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F9

<400> 3640

acgcgtccga acaaagagag agagagagag agtgttatgt tatgtcttta ttgtcaatta 60

gtaattttct tcgaattaga tgttgtttct ccgtcgaatc gccgtcgtct tctttgtctt 120

cacctctttc tccgccgctc agaactccac gtgtcctctg gacttttccg tccttgaacc 180

gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggctacg 240

cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300

tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360

ccgatccacc tgcggtttcc agacgccgtg gatttcgcan gggtgcatgg acatcaccac 420

caggtctcaa ttcgagtccc ttatccctaa ctcctccctc g 461

<210> 3641
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-G1

<400> 3641

ctggttgcct gngcctaccg gcccggaaat cccgngtcga cccacgcgtc cggtttttta 60

ttaccctgtt ttataaacag aggaagccct aaatttggat tctctatttct aaagttttct 120

catttcgcta attttggaga aaaacgattg ttttttttaa tcgtttcttc atttctgatt 180

cattttttctt ggtttatgat ctgttcaagt aaaggaacaa tcttaatcgc tagaggtaaa 240

aattcaaata caatccctag attaccccta aaagggtcat ccacaaatta cgcgaatcga 300

attcaaattc gaaacccaat cagtgtcaaa actttccggc gatcatcttc atcgtcaatg 360

gcggtggaaa caatgtcgat gggatcagat tcatcaactt tgattctaac atcangagca 420

aagcggtcgc gttanggtac ccntcctcga tgccaagagc ttaaagcgtc tcgttaagan 480

taancaatcg ttgaatcctt tc 502

<210> 3642
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E1-G11

<400> 3642

acgcgtccgg aaaaagttta atttgtctct ttctctattt atctccggcg tcaatttcac 60

ggcggctaca cgacggttat cgatgtcatt gactgtaccg gagttcgatt tcagattgac 120

gccacagttt ggtttctcac agtcaccgat cggggagcgt aatttcgcgg atgttgataa 180

tctggagaac tgtattaagt atttgaatca gagcttagtc acctctggat tctctgcttc 240

gcttgacctc ttcgctaccg atcctgtttc gattgctaga acttgcaatt gcgtatacgc 300

tttgattcaa cagaggcaac gagatgtgga atttagagaa tctgctaatg atcagagaca 360

acgactttta tccgatatgg gcgagactcg aagcaaaagt tgaaaggctt gagactcaat 420

tggcaagcta aagaaaggga aacttggttc ggtgacaaga acg 463

<210> 3643
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-G3

<400> 3643

tgtactacgg cnccggaatt ccnangtcga cccacgcgtc cgtctanctc ttcgatttca 60

cgtcactcnt cactcaataa aaaagctact gcttcaaagc tctacttcnt caatttactc 120

tcattcgttt gcgttgatgt agcaaaacaa aaaccaaaat ggttcccgtc tcgttctgct 180

tcntctttct ccttctcttg ctctctgctg gagagagttc atcgcantta gtttctggtc 240

cacacatcac cgatgttaac atactcntac ctcccaagat gaagaatccg gttgagtatc 300

gccttcaang aagtgatggc tgcttcaaat ggtcatggga tcatcatgat attctatcaa 360

gtcacacctg agtttaattc gagcagtcat tgttcgacca gcgcgcgtct caaatcgatt 420

tctccggtat agtggtagaa aaggagactg cagtttatgc cactgatata cnagactggg 480

atgggtgatt cgctgcaang tcttt 505

<210> 3644
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H5

<400> 3644

acgcgtccgc gaanattcat cttttgggga tgattatgag aaagagattg gagtattact 60

tggtgagcag cagagaaggc aagtagaagc tgatgagctt gagagagagc ttaatttgta 120

taggagtggc tctgctccac cgactgttga tggttctgtt agtgctgctg gagggctttt 180

tagcggcgga ggtggggctc ctttttgga gtttggtgga ggcaacaagg gtaatgggtt 240

tggtggcgat gatgangagt ttaggaaaga tccggcttac ttgtcttatt actatgctaa 300

tatgaagttg aatccgaggt tgccaccgcc tttgatgtct anggaggatt tgagggttgc 360

tcagaggctt aaagggagta ataaatgttt tangtgggtg ttggggataa ngaaggaaag 420

ttaattgata gtcaaatctt taanctctaa tgccacctgg ttttgatcaa 470

<210> 3645
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H6

<400> 3645

ccctgggncg tacaaatccg ggaattcgcg ggtcgaccca cgcgtccgcc gtttcttcag 60

cctctcgccg ctaattaacg ccgtctctgg ttgctaccac cgccgtaacc ctaacggcat 120

ttttaatggc gtcgtgtgat gacgatttct ctctacttgg agacgatcag tcaaacccta 180

atcaacatca ccaccaccac caagttcttc atcacacgcc ctacgctcct agacgattca 240

acccgaaacc atcgaatcag atccttttac cgcatcacca gaggaacggc gacgaggacg 300

acgagaacga tgtcgttgta gaagcgtctt ctgctttcca cggtcacggt gttaatcctt 360

tcacggcgga cgaaaattcg aatccgtatg atgataataa cgcagctgta gacgaagacg 420

aaagacgaaa gatctcggtg ccaacagatt tagaatcgga ggtgttcgtg ttganaaana 480

gggaagagtc agggaggaac taagtna 507

<210> 3646
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A1

<400> 3646

acgcgtccgc ttcacaccta cccctcaaca aacgttggca tcattgaatt caacaaagta 60

cacaaacaag ttctttctgc tgctcttcat ctttcacaag gttgtggcta ttgggtttgt 120

aggcttcctt gtcttcagag gcgttcaagg tctaattgga tcaaatggta gcgtcaaaag 180

gaaagagaaa aagatcctca gattcttact tccacaagtc gaagctgcat cgctcttgag 240

catcattctt gcattccttt ggcaaatggc attcaggatt tggcctgatt tcatgattca 300

cttcatactt tggagtacgt ttttgatgtc tttatcctca aggaatcctc ctactgtgtt 360

tccagatgcc agccactgat gctgttgggg tttgcctcaa ttgccttctc aattgggcaa 420

ttggttaana atgccttgct gggtcactcc gtaanaatca agtttcngtt ccnaaagatt 480

ttgggtcaaa gtccg 495

<210> 3647
<211> 473
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E6

<400> 3647

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tggatgtttt gggcaagaaa cagagagaaa cacgttaatt tgagagtttg tcattgaata 120

tttggtttgc aatggaaaga gattttctgg gtttgagcga caagcagtat ctaagtaata 180

acgttaagca tgaggttaac gatgatgctg tcgaagaacg agggttaagt acgaaggcag 240

ctagagaatg ggggaagtca aaggtttttg ctacttcaag tttcatgcct tcttcagatt 300

tccaggaggc taaggcgttt ccgggtgcat accaagtggg ggatnagttt ctgcgggcaa 360

tgttttccgc agatgccaan ttggtggtgc gtttcaaaaa cgcgacgccg cntttaataa 420

ggcgggtcaa ttcccttaac aactcaaccc ttccccttgt tccaacgagt ggc 473

<210> 3648
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C12

<400> 3648

acgcgtccga tttccattac ccaatcccgc tccttttctc tgattttgaa tcgaaccctt 60

aatacccaga aatctcacgg ttccgaggag tgggtttttg ggggttaggg ttttcgagag 120

atgttgaatg tcaggttcat tgatgaatct gttttctctc tgcttcaagc cattcgggca 180

cgtctgtgat aattccgaag ctggatcggg tggtggtggt ggcgtttctg gtggaaccgg 240

cggtgaaggc aaagacggat tgctttggtt ccgtgatctc ggtaaatatt gcggcggaga 300

tttctccatg gctgtgattc aagccaatca ggttcttgaa gatcagagcc aaggtcgaat 360

ccggtaattt tgggactttt gttggtgttt acgaaggtca tgggtggtcc tgaaactgct 420

cnttaagtcn ggtgatnaat ccccttaanc aatttcnaag cttaagggta agcaa 475

<210> 3649
<211> 489
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C2

<400> 3649

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actcttgtca ggatttttga ttctctcntt ggntttctcg gaaaaatgtc tgcgatactc 120

caaggagctg gagctgcaac ggctctctcg ccgtttaatt ctatcgattc caacaaactc 180

gttgctcctt ctcnctcttc tctttcagtg aggagcaaga gatacattgt tgccggatct 240

gatagtaaaa gctttggttc tagcctcgta nctcgtcgct ctgaaccgtt gataccaaat 300

gctgttacna cgaaatgcgg acactgctgc cagctctact tcaatcaaag cctgggacat 360

tgagctatca acttttcgan ggctcttcaa gaangtccta nnaagaaaga agatggacaa 420

gagattcaca atgttatgtt gtcaagggtg aaanatgtna gggcaattac gganggctca 480

atacaaagt 489

<210> 3650
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C4

<400> 3650

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atctcctctg tttaagcaaa gcacttttct aaaatcccac aggagaagag agatcggaag 120

agatgacgaa gctggcggaa aaatcgggaa gcagaccacc gtgggtggga ttagcggcag 180

ccgcatgggt tcaggtctcg gcgggaagtg gttcgacgtt cccgctttac tcctccgctc 240

tcaaatcggt tttgggtttt agccagcagc aggtcacgat ccttggcgtt gcttgtgatt 300

tgggtgaaaa catgggtctt cttcctggat acgccagtaa caagcttcct ccatggtcga 360

tgcttctcat cggagcttcc tcntgtttcc tcggcttcgg gcgttccttg ggtctccgtc 420

aagccaaatc cttccttggg cttgcccttt tggctgcttt ttggtaactc caaccttanc 480

tancaaatag caactccgtg ggttccggta caancatctc cttgtca 527

<210> 3651
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C6

<400> 3651

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tgtcaaaata ttagaacgcc ttgctaggaa ccaggatgtt cctcaggagt acacatacta 120

tggcatccca tctccttggc tccaggttaa ggcaatgagg gctcttcaat attttccaac 180

cattgaagat cccagtacca gaaaagctct ctttgaggtc cttcagcgaa tattgatggg 240

cacagatgtt gtgaaaaatg tgaataaaaa caatgcgtct catgccgtgc tgtttgaagc 300

tctctccctg gtcatngcan cttgatgctg agaaggaaat gatgtcacag tgtgtttgct 360

cttcttggca aagttaattt ctgtccgtta gcccaacatc agatatctag ggcttggaaa 420

atatgacgcg aatgctgatg gtcacaagat gttcaagata tcataaagaa gca 473

<210> 3652
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C7

<400> 3652

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ctttccgatc atgtcatcgg tctgtgttaa cgaagcatta accgatgacg agctgagatg 120

ggtattgtcg agactagaca gtgataaaga taaggaagtg tttggtttgg tctgcaagag 180

gtggctaaat ctgcagagta ccgaccggaa gaagctagcg gcacgtgctg gtccacatat 240

gctccgccgt ctcgcttcta ggttcactca aatcgtcgaa ttggatttgt ctcagtcaat 300

ttctaaggtc cttttatcca ggagttactg attctgacct cgctgtnatc tctgagggat 360

tcaaagtttc tcagagttct taaatcttca caactgtaaa ggtattacag atactggatt 420

ggcctcaatt ggaaggtgtc cttccttaac tg 452

<210> 3653
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C8

<400> 3653

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gcgcgacaca tagagtgtag agacgctttc acgagcgttt ccgacgtcgg actttcagct 120

catcatctcc acatctttaa cggtaaagat taatcatgcc tgaaattcat ttgggtgctc 180

atacaataag atcccatgga gtaacagtcg cgaggttcca catgcatgac tggctcattc 240

ttctgctgct aatagtcatt gaaattgttc ttaatgtcat cgaacccttt catcgttttg 300

ttggagaaga tatgctcact gatctcagat accctctgca ggacaacaca attcctttct 360

gggctgtccc gttgatangc tgttgtgcta ccttttgctg tcatttgtgt ttactacttc 420

attagaaatg atgtttatga cctgcatcat gcaatactag ggcttttgtt ctctgtactt 480

ataaccggtg tcataaccga tgctataaag gacgct 516

<210> 3654
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C9

<400> 3654

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atgggcaagt cttagatctg gatactgcag tgaaannnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnagaaat tggatctgaa gaagatgata aaggagctag 240

atttacaaga tataccttct gttttcattt gtcctatctc cttagagccg atgcaagatc 300

ctgtgacttt gtgtactggt caaacctatg aaaggttaaa cattcacaaa tggtttaacc 360

taggtcactt gacttgtcct actacaatgc aagagctttg ggaagatacg gtaactccct 420

aataaaactc ttcatcattt gatctatact tgggttctct cagaa 465

<210> 3655
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D11

<400> 3655

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ttaatgggag tttacactag ggacagtgaa atgagttctt cattgacttt gacttgcact 120

gacggtgctc ctgccttaaa acaaagancc atcggtctcg ctaacaccca cttgtcgatt 180

ccctcgcagc tcatctccat gtaccagctt cctcataaga tagctctttg tttgccttcc 240

accgaacgaa gtcagtctca taatggtgac ctttggatcg gtaaagggga atattattat 300

ctgccttacg ataaagatgt ctctaagatc tttgcctcca cgcctctgat cggtaatggc 360

aagtccggcg agtacttaat cgatgtgaag tccatccaaa tcggtgcaaa gaccgttcct 420

ataccctatg gagccacaaa gatcagcact ttggctccct tacaccgtat tccaaacttt 480

ccctttaca agggctctg 499

<210> 3656
<211> 529
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D2

<400> 3656

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tacaggttca aagattctta nccntccggg gagttttggt angaaaaaga cggagtcaca 120

gccaccgtca cccctgagta caangaacta tcagaatggt gctgctaata ccccaaaggt 180

tcgtcaatca agaccttcac cagtagctnt gaagaagacg ccagttccan gaagcgaaca 240

aatctttaca ctctttatcg tctgatggaa tctctattga cctcaacggt cagaatgatt 300

cttttaacca taagcangag aagccatcgc gaactgttcc tctatcccca anacagcatg 360

gctgatcntg ggaaaccctt atnancaacg ancctccaag gggcattgaa cacanntggc 420

aagaattnac acagccaagt gagattaagt ttgtttaatg ttgttaagcc cctccannnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncn 529

<210> 3657
<211> 538
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D3

<400> 3657

aactggttcc ctgtccgtac ngccccggaa ttcccgangt cgacccacgc ntccgtgaca 60

acattaggaa ctgtgtatac cgaaagaagt cgcgtcgcgg atcttctaac tatatggaga 120

aacaaataca gtttacagga atacttagca ataaagctca agaaaatcca gacttttca 180

actggaatcg agttaagctt cgttactgcg atggtggttc cttcagtgga gatagtcaga 240

acaaggctgc acggcttcag tttagaggag agaagatatg gagagccgca atggacgatt 300

tgaaggcaaa gggaatgcga aatgcgaaac aggcacttct atctggttgc tctgcaggtg 360

gtctagcagt tattttacgc tgttacgaaa ttcagaaacc ttgttttcct gggatgggac 420

caagagttaa atgccttaaa gttgatgcaa ggcttgttcc ttgggacacg ccctgatgtt 480

atcccgggtg ggacacacta taaaggaant ttatataacc ggcgnttgtg caagttgc 538

<210> 3658
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D4

<400> 3658

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cntgttntca gcacaaaacn aangtcagct caggcgaaga acagatggct cgtaccaagc 120

aaaccgctcg taagtccacc ggaggtaaag ctccaaggaa gcaacttgnt actaaggctg 180

ctcgtanatc tgcaccaact actggtggag tnaaganacc acatcnttac cgtcctggaa 240

ctgttgctct ccgtgaaatc cgtaagtacc agaatagtac tgagttgctt accatgaaac 300

tgccatttca gangctantc cgtgagattg ctcaanattt caagactgat ttgcgtttcc 360

atagccatgc tgtcttanct ctccangaag ctgcagaagc atatcttgtt ggtcncattg 420

aagacantaa actttgtgcc aatcatgcca agcgtntnac caattaatgc ccaaagnnca 480

tcaagctcgc tccgtcgtat cagatggtga 510

<210> 3659
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D6

<400> 3659

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cacgcgtccg cggacgcgtg ggttcatcaa tccctcctgc taccgcgaga gagtaacaac 120

tcaccggacg tttcaaatcc atcctccgat aactatattc gtttcgttag atctagatct 180

gagcgtcggt gagagatttt ctggatctgt gatacgttcc aggaaacatg gcgacgatga 240

aaagtttgat aggtctgata aacaaaatcc agagggcgtg tactgtcctc ggagatcatg 300

gcggtgaagg aatgtcgctt tgggaagctc tcccaaccgt cgctgtcgtt ggtggccaga 360

gttccggaaa atcttcagtt ctagaaagtg ttgtgggaag agattttctg cctcgtggat 420

ctggtatcgt tacaaggagg ccattggtgt tgcaacntca taagactgan gacgggacaa 480

ctgagtacgc tgagtttcct catgctccta anaagaga 518

<210> 3660
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C11

<400> 3660

acgcgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnngaggat ccacatcgtg tggtactgct ggagctctat 240

acgcnttgat agccgtagta actggttgtg catgtatata ctcatgtttc atccgtggaa 300

anatgagagc tcactattaa tatnagaang agatgattgt actgattgcc ttanacattt 360

ctgctgttga gctttgttct ttgacccaac antaccgtga nctcaagcac cgcggttacg 420

atatgaagtc ttggatgggc ggggaacgtg gagaagacac cacaatc 467

<210> 3661
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A10

<400> 3661

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tacgaagaag caaagtctgt cttagccttc tcaatacctg gacaggcagg gganatgaag 120

tctggggatc ccaaatcatc tagcatcctt caagttcttg tttcactcca nggattggtg 180

ttgaattcaa agccttattt caatgaagcc gggtatgata agcangtcgg aactgcggaa 240

ggagaaaaaa aactcactgg gatacaacga gaatactttc ttgctaaatt gtaaaaccat 300

gatgtatctt atgcggaaac caccanaggg attttgaaga actcatcaaa gatcatttca 360

agaaaacgcg ggatattaca ttttgaangc atgtgacgcc tacatganag gatatctcat 420

angttcctca ccaaaagatg cctcngttat cgatgaacgc agcaaccgct aattcaactt 480

cagttgggtt taagcntaag ctggc 505

<210> 3662
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A12

<400> 3662

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gatctctcca ccgctcttaa cgaggaggat cgtgccgggc ttgttaatgc tcttaagaac 120

aagttgcaga atttggctgg acaacactct gatgtccttg aaaacttgac tccaccagtc 180

aggaagcgtg tcgagtttct aagagagatt cagaaccaat atgatgagat ggaagcaaaa 240

ttctttgagg agagagcagc tcttgaagct aagtatcaaa agttatatca gcctttatat 300

accaagcgat atgagattgt gaatggtgtg gtcgaagttg aaggtgcagc tgaagaagta 360

aaatccgaac aaggagaaag ataaatcagc tgaagagaaa ggagtancaa atttcctggc 420

ttaatgcatt gaaagaacaa tgaaantaac tgcgggaaga aataactgag cgagatt 477

<210> 3663
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A2

<400> 3663

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aactactctt tccaaaagca attttaaatg gtgtcatttt gcggtagaag gttcgccttc 120

ttgattatct ttctctttgc agcacaatat gagcgtgtct acgctggtag ctttcacaag 180

gacgttcaga tacattgggg tgatggccgt ggaaaaattc tcgacaatgt cggaaatctt 240

ctttctctct cgctcgacaa attctctggt tccggttttc agtcccatca agagtttctt 300

tatggcaaag tagaggttca aatgaaactt gtacctgggt aactctgctg gaacaagtga 360

caacattcta tctaaaatct ccctggaaac tacatgggna tgaaataaaa ttttgagttc 420

ctggggaaaa cataagtggg tcatccatat acccntcata ctaaatgttt acacaaaaan 480

ggcacaagga gaacaaagga acaacaagtt tcatctatgg gtttgacc 528

<210> 3664
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A3

<400> 3664

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cggtcttttg ggacatcagt atgtgtctgg ttctcccttg ctttgatcct cgtcgggtcc 180

gtccgtgtat taaacgggtt ttggagaatt ctcttgtcct ctcaacatca ctgccgttgg 240

cgtactaaaa gacgtccaga atgacatcct gagatgagtc tattccagtg gaatcgctct 300

tactaacgtc ccctaaggtt ctatggacat tttggntcnt atttatagat ttacccgtga 360

ggatccacct ccagctaata taatggtcat aacccgattc ggaacctggg tctttttgac 420

ntcctacana tgatgggata caaccttctg cagcccgttt ccatataaat cctttcaaaa 480

acttcntcct ggcaagattc aangggcact tg 512

<210> 3665
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A5

<400> 3665

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tagtgaagga cgaaccgaac taattgataa ggtgggagct gggtatcttg atcatttgat 120

tgtggaaaga aaatatgctg aagcggcatc tttatgcccc aaattgttac gaggatctgc 180

ttcagcctgg gagaggtggg ttttccattt tgctcaacta cgccagctgc ctgttcttgt 240

cccatatatg cctacggata acccaaggct taaggatact gtgtatgagg ttgctctagt 300

tgcactaagc aaccaatccc tcataccaca aggagctttt gtcagcggtt aaatcttggc 360

cacgttctgt atattctgct ttgactgtta tctcagcaat agancctcaa ctgaacacat 420

cctcaatgac agatgccctc aaagangcgc tggcaanaac tgttatgtaa 470

<210> 3666
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A6

<400> 3666

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accaatccca agatctgaat ctcaacctaa acctcagatt catcatcatg gcttcttctt 120

ctaactacga tggaatcctt ctcggtatgg gtaacccact cctcgatatc tctgccgtcg 180

tcgacgacga atttctcacc aaatacgaca tcaagttgaa caatgcgatt ctcgcggaag 240

acaaacattt gcccatgtat gatgagatga gtancaagtt caatgttgaa tacattgccg 300

gaggtgctac tcagaactca atcaaagtgg ctcagtggat gcttcaaatt cctggggcaa 360

ccaattacat ggggattcat tgggaaagga caaatatgga gagggcatga nagaangatg 420

ctacattgct ggattcttcc tcacagtatc gcctgaatcc attcaagttg gnatccgagc 480

acgctgctgc aaaacaaaaa ggggttcaac aatgnacctt ttc 523

<210> 3667
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A8

<400> 3667

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attccttgat agaaacaaaa tggaagacaa taaaagaaaa gtattagatg aagaagcgaa 120

agcttctcta gacatatgga agtatgtctt tgggtttgca gatatagcag ctgcaaagtg 180

tgccattgat cttaaaatac cagaagccat tgaaaaccat ccttcttcac agcccgtaac 240

actagccgaa ctctcctccg ccgtctccgc ctctccctcg catctccgcc gtataatgag 300

gtttcttgta caccaaggaa tctttaaaga aatccccaca aaagatggtt tagctacagg 360

ctacgttnat acgccactct ctcgccgttt tgatgatcac aagacgtgat gggaaaatcg 420

ctggctcctt ttgttctcct tcgaaacanc tcncgaagat gctcgctcca atgggtttga 480

gacttagctc agtcgtntct tcgccggtca acggttcaac tcca 524

<210> 3668
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B1

<400> 3668

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gaganaaaag aagagcgaac aaatnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacaa caacaacaac aacanaataa 180

tcttgcaaag tttcagtctc aggtggttca cagttaatgc tacttgcaat gatgaatcca 240

tcccaatttc gataacctct actgaggcat ccaaatgttg aacggaaaag aagagcctaa 300

gcagaagaaa ggttggtcag agtcgctgct agaatttcgg tcagggtttg gggaaaagat 360

gaaagttgtg tcgaagaaac gttggaaatc tcttggtcnt cttcatcctg aaaagcanat 420

cagttgcacg gttttgcctt cttttcgaag ttgaagtcan acaaccatgg tccaangccg 480

ttgcaccaat gtatctcant gtttaagacc ttgactccta ttna 524

<210> 3669
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B10

<400> 3669

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aaatgccaac tgggcangga ttcataaggg agtgtgttcc acttgggatg aagaatgctg 120

tgccttacga agaagagtga aaactgttcc tcggcgccga tatttgttag gcaatccaac 180

ttcaagcttc cttctgattc taaggtaccg atcatcatga tcggtccagg gactggatta 240

gctccattca gaggattcct tcaggaaaga ctagcgttgg tagaatctgg tgttgaactt 300

gggccatcag ttttgttctt tggatgcaga aaccgtngaa tggatttcat ctacgangaa 360

gagctccagc cgattttgtt tgagaagtgg tgctctccgc anagctaagt tgtcgccttc 420

tctcgtgaaa ggacccacca aaagaatacg ttacaagcac aagatgatgg gacaaaggct 480

tctgatatcc tggaataatg atctcctcaa ngga 514

<210> 3670
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B7

<400> 3670

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ngttcatcat ctccgggccg ataccagtgt gcgtttggat cgggttgaca tgagcctcga 120

cagggtgatt cagcaagtgg gttccatgaa aattgggggа ggtggcttga tatcagaggc 180

catgaagaga gccgaggcta tggagattga gaccaacgac gattcggaga aatttggggt 240

tggattggaa ttgggaaagg ttaaggttaa gaagatgatg ttcgaatctc aaggaggggt 300

ttttgggatc agtggaatgg gcggtgttgg taaaaccact cttgccaaag aacttcaacg 360

ggaccatgaa gtccaatgtc actttgagaa ccggattttg tttctgactg tatcacaatc 420

ctccgcttct tgaaggagct gaaggaaact tatatggggt ttccttanct ggttgtgaan 480

ctggaaatcc cngttcctga ctgtaatttt ccgtttgatg 520

<210> 3671
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B9

<400> 3671

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caagatcaat ctcccaattc tcgtctacca accaaaatca ttctacccaa taagaaacct 180

gagaaatggt ccaccggagt tgctcccgga gagtacggtg gtcctccgac taccaccaag 240

ctccgaaagt actggggagg tgaaaaagaa gatcccatta cttccacaga cttaatctgg 300

aacagagatt ttatggatca aatgaagaaa ttgtttgatg atcctaatga ttcttctctc 360

gacccatctc cttcaaagga aaagtcttct gggtttctga gctttagcag agttatgagt 420

cttgacagta tggatgttga tttaagtaaa gagcttgcat cgtcttctaa atccgttgtg 480

aaaaatcgtc ttgacacctc caangtcaag aag 513

<210> 3672
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-H12

<400> 3672

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agccctaaga ctggttttat cactctcgcc aacaccaacc acgctttttc tctctttacc 120

tccatttttg tattcgtcac cggagtagat ggatacgaga gaaatcaacg gttttgcctc 180

cgccgcgaga tcgatatctc ttcctacgca gcctaattac agtagcaagc ctgttcagga 240

ggcgttgaaa catttggcat ctataaacct cagagaatta tgtaatgagg caaaagttga 300

gcgatgtcgt gcaacaagag acttagctag ctgtggnaga tttgtgaact atgtgttgaa 360

tccatgtggt catgcctcct tgtgnacaga gtggttgtca ganggtgtga tgtttggtcc 420

naactgta 428

<210> 3673
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D9

<400> 3673

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ctctctttca ctctctccgt agtctgagac tcgccggaaa agcttgtatt ggcttctctt 120

cgatttctgg cggaagtaag gatatcacgt gagctatgaa gttcctcatg caatccattt 180

ctgggaggaa tcgatctctg gttcgagctc tagttagtcg gcgttacttc gcttcatcgc 240

cggaggaaat cgcaaagaga aattacgcca acgatctgtc ggaatacaac accgctgtca 300

actccgtcac agctcagcgc aggcactatt tgctgaggga tgtttatgat gatatgaagc 360

ttgatggtgt gcaagcctac agctgatatc ttccattcat ttgtcgtggg aacgatgaag 420

ggtgctcggt taagcgatgc gttctttttc cgg 453

<210> 3674
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E2

<400> 3674

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aggttggatt caacttctgg gtctctacta tgattgttct gcacacatgg tctggtgcgg 120

agagcgtacc angacanttg gatggcgctc atgtcgagtt tctcaggggg attgctaatc 180

ctctgggcat taaggtgagc aacaaaatgg atccctttga gctggttaag ctagtagaaa 240

tcctgaatcc taataacaag cctgggaaga atcactgtaa ttgtgagaat gggtgccgan 300

aacatgagag ttaagcttcc ccacctgatc aagangcagt ccgcagatca ggccagattg 360

tgacatgggt ctgcgatcca atgcatggaa acaccatcaa agcaccttgc g 411

<210> 3675
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E8

<400> 3675

caactgattt ctacacatcc catgagtgtt tgcttctgcc ttatgaacag tcccttacaa 60

ggttggattc aacttctggt ctctactatg attgttctgc acacatggtc tggtgcggag 120

agcgtaccag acaattggat ggcgctcatg tcgagtttct caggggggatt gctaatcctc 180

tgggcattaa ngtgagcaac aaaatggatc cctttgagct ggttaagcta gtagaaatcc 240

tgaatcctaa taacaagcct ggaagaatca ctgtaattgt gagaatgggt gccgagaaca 300

tgagagttaa gcttccccac ctgatcagag cagtccgcag atcaggccag attgtgacat 360

ngggtctgcg atccaatgcc atngaaacac catc 394

<210> 3676
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E9

<400> 3676

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cttatctgaa tgctttcatt ctaattaaag attttaatat atgaatattc gcacgtggat 120

atttgtataa gatatgcatt aatctccgag gctatgtata gttcagaatt tgaagtgaag 180

tttaggagag gaagagagat ggaggtattt agacttggng agctgagaca cctactggtg 240

acggttttct tgtcggggct cgccgaatac ttgataaggc cagtgatgac tgacgtcacc 300

gtagccgcgg tttgctccgg cctagacgat tcatgttctt tggccgtcta tctcaccgga 360

gtacaacaag tgacggtagg aatgggggac aatggtaatt gatgccagtg atcggcaatc 420

tatcgggaca gatattggaa tcaanagcat gctcc 455

<210> 3677
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F12

<400> 3677

ccttccagtn ccggtcaagn attancgggn cgacncacgc gtccncccac gcgtccgagc 60

taaaatactg tgttctttgt ttcttccatc gaaatcgaaa aaagctaaga tcnttgcgtt 120

ttgaaacgat ggcggaacga acataagcat gatgaatctg tgatcgctcc tgagccagct 180

gttgaggttg tggagagaga atcgttgatg ganaagatat cggagaagat ccatcacggt 240

ggtgattctt cttcgtcttc ttcatcttct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnccctctt ctccttcgtc ttctatgaaa tcgaaagttt accgcttgtt cggacgagag 360

cagcctgttc ataaggttct cggcggtgga aagccgggct ggatatantc atgtggaang 420

aacaagaaga ttctgggggt gnactttggt ggg 453

<210> 3678
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F2

<400> 3678

aaccttccgg tgccgtctaa aaattcangg gtccgacnna cgcgtccgaa aaacattaag 60

tagcactctt tttcccctcc taatatccct cactccacac ttttttcncta tatcttctcc 120

tcaacttgga tatggggtga agccgtagag gtcatgttcg ggaaatgggt tcccggagat 180

tcacaaagcc acatcaccca ctcaaaccct ccactctaac cagcangact gccattggta 240

tgaagaaacc atcgatgatg atctcaagtg gtcttttgcc ctcaacagtg ttctccatca 300

aggaactagt gagtaccaag atattgctct gttggacacc aaacgttttg gaaaggtgct 360

tgtgattgat gggaaaatgc aaagtgctga gagagatgag tttatctacc atgaatgttt 420

gatccanccc gct 433

<210> 3679
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F6

<400> 3679

ggtgcccggn aaaggtccaa gaattcccgg gctttcaaga aacaaaaaca agataatgat 60

ctcttcagat tcctacactc caacaaatat aagtttcatt agattctttc ttagctagag 120

aatgaaactg attgagaaga cgatgagcat gaaccagttt aggactatgg aggaggagaa 180

gcaagacggt ggtgagcttt tccataccat cgaggtagct aaagttgacc ggaacaacgt 240

gtctcagccg ccgccggctg ctactgcagc actgctagaa gttcccggtg atgaacttaa 300

cctaattcca ccgttgaact tttcgatggt cnataatggt atattccggt ctggattccn 360

ggactcggcg aacttcncct tcagcaagac tcttggcctt cgctcaanca tatcgttgtg 420

tccagagcca tanc 434

<210> 3680
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F8

<400> 3680

acgcgtccna atggatcgtc ttaagcttta tttctccgtt ttcgttttgt ctttctttat 60

cgtctcggtt tcgtcgtctg atgtcaacga cggcgatgat ctcgtgatcc gtcaggtggt 120

tggtggagcc gagcctcagg ttttgacctc agaggatcac ttttctctct tcaagcggaa 180

gttcgggaag gtctacgcgt ccaacgagga gcatgacnat agattctcgg ttttcanagc 240

gaatctcagg cgancgaggc gtcacnagaa gttggatccg tcggcgactc agnggngtta 300

cgcagttctc agatntgacn cggtctgant tccgtaagga agcacttggg nggttacaan 360

tgggctttaa gcttccnant tgatgccagc agggntccca ttctccc 407

<210> 3681
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F9

<400> 3681

gaattaacgg gncgacccac gcgtccgttt ttttattctc atcggcaaaa tatatatccc 60

caaaatttta tcatatttct cgatagagaa aaatcattaa ctaaatatcc attcccactc 120

aaaaccctaa aaaagagagc ctcaaaatct ttgagtgttt tgcgtcgtcg gttttaaaca 180

aaaaggttca ataacttttt ctctcctttg tttctttttt gtttattatc tcctctcatc 240

ccattttccc aacacgacgt cgttacagat tcctccgatg gacttcccgg acgatcaccc 300

ttaaccacct tacaaaacga cgacggagga agaaaaggaa ccggtacagc cggagcggtt 360

agggttaaac cgtggttcac ttggagatca agatccgaat cggacttcaa atcgttttcc 420

ggttaaccaa gaagagtcct t 441

<210> 3682
<211> 383

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-G2

<400> 3682

acacacattt gtcgaaatcn taacaccaat cccaaatcag aaaaatcaaa acttttant 60

ttattttatc aaaatggngc ttatgaatgg aagcatgaat cnatcatcgg tcaaatcatc 120

gatgatcaac caccgtcaac canacttctc ctccgccgtc tccagaccca cttctttccg 180

gatctccgcc gtgcaaaccg acccaaaaac accaggctgc ttcatcggcg tcggcggcga 240

cgacnactcc ggnaacgttg acgaagcccg ttggagttaa ngtgggtaaa ggaaaatggg 300

caccagagag ttggaggacg aaganagctt tacagnancc cgggctatcc agatttagct 360

gcgcttgaag gctgtgccag acn 383

<210> 3683
<211> 367
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-G8

<400> 3683

acgcgtgggc tctctaactt gaaagttgtt tccttttttt gaatctgagc tggttttgga 60

attttggtgt caagatttgg aatttgaatc tgtagtaaga ttcaggttta gtgggggagg 120

gaacaagttg gaagcttttg ctagttttgt caaaggtgtc actaaagtac taactatcag 180

aaaacatttt cagccagaag cttggtgatg tatcttcaga ttttcaacaa cccatctcat 240

ggcttagctc atttatgcta ctctagtcgg ggtttcgtgt agggtaagac tgagtcgtgt 300

ccttgccatg ccaccgtctt cagtcctcct tgcatatgga cgaaagcaat gatcttccca 360

agccang 367

<210> 3684
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-G9

<400> 3684

cgctgcccag gtaccggtca aagaattccc ggggccgacc cacgcgtccn ctttgtctct 60

gtcgcaatct caaccatatg gagaaagaca tggcaatgat gggagacaaa ctgatactga 120

gaggcttgaa attttatggt ttccatggag ctattcctga agagaagacg cttggccaga 180

tgtttatgct tgacatcgat gcttggatgt gtctcaaaaa ggctggtcta tcagacaact 240

tagctgattc tgtcagctat gtcgacattt acaagttagt tttaattact aatatgagag 300

gatttgctag agatagttaa ctaaattctc ccctttactc ttgaccaatc catttttatt 360

gtgacctcat ccaaaaatga caagctttgc ttatataaca atttgtcanc actatctgtg 420

tcactgagtg atgcattgat tataggatat gaaaatgatt 460

<210> 3685
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-H10

<400> 3685

aggcanaggt taacgggccg acccacgcgt cnaagagaga cacacgcaga ttttgagctg 60

cgtgctctgt tttaagcttg aaggaggaaa aacatggcag accaagaatc aagataagaa 120

cattgagatt tggaagatta agangctaat caaaggactt gaaaccgcaa gaggtaatgg 180

aacaagtatg atctctctta taatgcctcc tagagatcaa gtagctcgtg tcactaagat 240

gcttgctgat gaatacggna ccgcctcaaa catcaagagt cnagtgaatc ntcaatctgt 300

tttatctgcc attacttctg ctcaacanag attgaangct ttacaacaaa gttcctccga 360

atggncttgt tctcnatact ggaaccattg ttactgatga nggnaangng aagaaagtga 420

ccaattgatt tcgaaccctt ttaaaaccga ggan 454

<210> 3686
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-H11

<400> 3686

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gtgaacactg aggcccgtag tttatctctg cagaagcaac tccagagata ttctccagtc 120

accctcgaag ccaagttgac agaactttct gaagcagatc agaaagcgtt gggtctaatt 180

gtgaaggctg caaaaattat ggacgatata ttctatgagc aggtttggaa cagcaatcca 240

agccctaaga gattggctga aggatcatgc caatgcatca aaactggaca aactaaaatg 300

ggattacttc acgatcaaca aaagtccatg gtcgtctctt gatgaaaatg aagcattctt 360

gagtactgcg gattcagctg taaagttgct tcctggagca acaaaagcca taanctggct 420

ggaaagggtc cttgaatata gagcagcctt ccanttgact aaacca 466

<210> 3687
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D6

<400> 3687

acgcgtccgc ggacgcgtgg gttcatcaat ccctcctgct accgcgagag agtaacaact 60

caccggacgt ttcaaatcca tcctccgata actatattcg tttcgttaga tctagatctg 120

agcgtcggtg agagattttc tggatctgtg atacgttcca ggaaacatgg ngacnatgaa 180

aagtttgata ggtctgataa acaaaatcca gagggcgtgt actgtcctcg gagatcatgg 240

cggtgaagga atgtcgcttt gggaagctct cccaaccgtc gctgtcgttg gtggccagag 300

ttccggaaaa tcttcagttc tagaaagtgt tgtgggaaga gattttctgc ctcgtggatc 360

tggtatcgtt acaagggang gcattgggtg ttgcaacttc n 401

<210> 3688
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F5

<400> 3688

acgcgtccga gaaaagggaa aattaccaga caagagtnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaaa atctagaaga agagaaagct 120

acaaaaatct caacatcgag gtaagagttt tggctacaga gcaaccatgc taacttgcgc 180

cttctcccaa aatcttatcc actaatctcg gtaaggaaag tgatgttggc aaaatggtga 240

agaaaggaag ttggttttct gctatcaaaa gggtttttac tccanattcc nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttgggga 360

agctaaggca tgngcgagac caattcattt cttcccatct tcagangagc ctantagtat 420

cganaagatc ttggggcgaa 440

<210> 3689
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F6

<400> 3689

caagatgacc taaagcgtgc aactggagaa ttcaccaagg acgagaacga tgctaacaaa 60

cttaaccgca ttcttcaact cacaggattc agtgacccag tctatgctga agcacatgtg 120

acggtacacc attatgatat tgctcttgaa gttacagtaa tcaaccganc caaggaaacc 180

cttcagaact tgtgcttgga gttagcaanc atgggtgatc ncanacttgt tgagcgtcct 240

caggaactac agtctggcac ctggaaagaa gcatgcagat tnaagcnaan atnnaggtgt 300

cgtccacaag angacnggga gtcatattcg gggaanatcn gtcnatgaga catcaaatgt 360

aatgggncga aaacntcgtt gntcttantg aacatncaca tttntatcat tggactatat 420

ctcccntgct gt 432

<210> 3690
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F8

<400> 3690

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ttattctccg gcaccgccac atcatcaaaa acctcaaact tcaactccgg caacatctcc 120

tccttcctca tctcacaaat gttatgcaac acacaacaag ctccaagcac gtacggcaga 180

tcctgaagct tcacctccgt ccgtttctgc aaacaagccc accgtccttt gagcctctca 240

aacgcagccg tcgcaatccc ctgaatctct ccgatactct cgttaaacgc gtgctgcgtc 300

cacgtcagat tctgtctcgt gtacggtaca agaagataat caagtcaacg gaaacccaga 360

gtttccaact atccagctgt cacgtaacat cccanngcgc cgctctttgc cgtgnaaagc 420

gaagatt 427

<210> 3691
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-G1

<400> 3691

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agattattgc tcctgttcct cttggaattt atgatggtgg tcaaaagaat gttgtcaaga 180

aacgtgtgtc ttttgctgaa ccggtagaag aagtcaaacc aatagaaacc attaaagagc 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca 360

gttcaangct atggaaatga ggaatatgaa gtcgtagcat aaaaggagaa gtgaaagctt 420

tgtaagttcc gtctggttac ggattagaan gcgaccgatn tnctgtgaag gttnatattt 480

tgggagggtt a 491

<210> 3692
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-H3

<400> 3692

gaaatcaaac caaccattaa ngaacttgta atggcggcgc cagacaaccc atcaaacgcc 60

gtggaatggg ccattgcgcg agatgataaa caaaccggag atcctccaca aagctatggn 120

agagatcgat aggagtcgtc ggnaaagaaa gattcgtcca agaatccgat ataccaaaac 180

ttaactatgt taaagctatt atccgagaag ctttccgtct tcatccccgt cgcccgcctt 240

caacctccca cacgtggcac tctctganac gaccgtcgca agttancata ttcctaaaag 300

gaangtcaag ttttacntan gccgttacgg tctttggnnc gtaaacccca acngtttggg 360

tctgatccac tntagccttc aanccaagna aagggcatct caatggagtg tttcgggnag 420

tga 423

<210> 3693
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-H4

<400> 3693

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gcttttaacc tcagccgtta aatctttctc cgatcatgcc ganaagaaac atcgccattg 120

gnggagtcca agaagaggtc tatcacccca atgcacttan ggcggcgctc gctgagttta 180

tctcgacttt gatcttcgtc ttcgccggct caggctccgg aattgctttc aacaagatca 240

ctgacaatgg ancaacnact ccttccggcc tcgtcgncgc tgccttagct catgctttcg 300

gtctcttttc gctgtcgcnt gtttggcgct aacatttccg gtggccangt taccctgctc 360

gttaacttcg gtgtcttaca cggnggtaan atcactctcc nccgtggnat tccctacngg 420

attgctcanc tttcttgggg tcccgtcggc cggctgtgtt tcctncct 468

<210> 3694
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E2-A1

<400> 3694

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aacaatcgtc tccccattag gcacattgtt gagggcaggg tagtctcgtg agttctcttc 120

tcctgagtgt aactgtggtt aaaagcttag ccaagatgca gggggagagg gccagtcttg 180

gctatttatc agaggccttg aactttgagc atggttcttc ttcaagtaat ggtgtgatag 240

atcattggga gaatattcac agtcttggtg ataatgactt gcaggattac atgattgcaa 300

attctgaatc aaatacttcg cttgcaaact cagtttatca cgagcaacaa ggtttacgca 360

gatttagcct tggtgangct agctctantg gcacgaaagg atgaaacctc caagtcacaa 420

atg 423

<210> 3695
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-A11

<400> 3695

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tttgcttcac cgaantaaga nagttgattt cattgaacaa ttcaatgaaa agcttctagt 120

tgagcaagag ancgagaatc tacggatact tgacgttcga aangctgagc tgatagaagt 180

tagcagaact gacttcatga caccatcaag cattcagnat ttttgtatga gaatcagttg 240

tttcnaagat tcaggaaccg anatgtntct gtgtggaatt tccgcggaga gcttgtgacc 300

tcgtttgagg atcatcttcn ttggcntcca gactgtaaca cangnaanat ctacataaca 360

agcgatcaag atctgatcat cncataatgc aaag 394

<210> 3696
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-A6

<400> 3696

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gaggatatct ttgccgtcta taaggattcc ttcaatgatc ctcatgagac cgctcagaag 180

ctcctcttct tagatacatt tcatgaggtg agaagtaaaa gggagaaaaa gaaggagcct 240

atagtgccag ttacacaacc aagtggcaga ggtggtcgga ggaactttgc ttcaagtaac 300

tcttatcaag gtagtggaag aaatgcttct tttaaaaggg aaaatggagc taatcatgta 360

acaagaggtt ctagaactgc tcagcctgcc actaacaaag caaagcaaca tcacagt 417

<210> 3697
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-A9

<400> 3697

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ccagatgtgt ccggttggtt tacaagtccg gtcacgtaac gggaaacgtg tagtagcctg 120

taaaagtgct tgctctgcct tcaattcacc acagtactgt tgcaccggct tgttcggtaa 180

cccacagtct tgcaaaccaa cggcttactc caaaatcttc aaagtcgctt gcccaaaagc 240

ttactcttat gcttacgacg acccaaccag tatcgccaca tgttccaagg ctaactacat 300

cgtcaccttt tgccctcatc atcgccatta aattagccag taaagaagaa gaaacatttc 360

tctattaaca acaaactcct gtcangtttc caaattcctg 400

<210> 3698
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B3

<400> 3698

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gcggcgtcac ctccgagtac atagagtaca acacaaaacc gagaatcgtc cctgagaaaa 180

tcaatgttca cttagttcct cactcacacg acgatgtagg ttggcttaag accgttgatc 240

agtacnacgt aggctccaat aactccatta ggggaagctt gtgttcanaa tgtattggat 300

tctgtaatcg cttcattgct tgatgatgaa aatagaaagt ttatttatgt tgaaatggct 360

ttctttcaaa gatggtggag gcaacaaagc aatgctaaga aagttaaagt caagaanctt 420

gttgactctg gtcaacgttg agtt 444

<210> 3699
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B4

<400> 3699

ctgtttacgc ttgcccggta ccgggtccaa naattnccgg gtcgacccac gcgtccgatt 60

ctgaatacgt ttgatgaacg tatcagttca tttgctgaac aaaagttcac gcgagatggt 120

attgatgttc agactggaat gcgtgtaatg tctgtgactg ataaagatat cacagtgaaa 180

gtcaaatcaa gtggagaact cgtaagtatt cctcatggat tgatattgtg gtccactgga 240

gttggaaccc gtccagttat cagcgacttc atggagcaag ttggccaang aggcagacgt 300

gcggtggcaa ctaacgagtg gttacaagtg acaggatgtg agaatgtata tgcagttggc 360

gattgtgctt ccatagctca acgaaaaatc ttgggggata ttgcaaacat attcaaagct 420

gcagatgcgg acaactcagg aaccttgacc atgggnagag ttanaaaggc gtggtttgat 480

g 481

<210> 3700
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B5

<400> 3700

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attcgtggaa tattttgcaa cttcgatacg taaattacgt aattagggtt tgataatgtt 120

ttatgtaacc agccccgaat tgaattagtt ccaaagttag ggtttttctc tctcaaatta 180

gggttttgcc ccaattgtgt tcttatattg aatttaccat ttgcgcaggt tatgtggtgg 240

aggttgtttc caatttaaag tatgtacctt taggttagaa attaggctta tttgtttctc 300

cagtgggttt cattgtagaa acaaattgaa ttttaggtgt taatgtgaga ttaggaaaca 360

agaatctctg cttttaacaa ggtaatagga gaatagggtt taagtanaag aaaggttaaa 420

actttg 426

<210> 3701
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F10

<400> 3701

aaatcagttt ccaaacgtgg attttgcaag cccagcaaaa ctgaagcggc agattttacg 60

tcaggaaagg agaggtcaac gaactttaga gctgatccga caagaaaagg aaactgatga 120

gcagatgcaa gaagcagcca ttcagaagtc aatgagcttt gaaaactcag tcatagggaa 180

atacagtata tggaggagag actatgagag cccaaatgct gatgctatct tgaagcttat 240

gagagaccag atcataatgg caaaagcata tgcnaatatt gccaaatcaa aaaatgtaac 300

caatctgtac gttttcttga tgcagcaagt gtgggagaaa ataaacgtgt tataggtaaa 360

gcaacctcct gatgccgacc 380

<210> 3702
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H10

<400> 3702

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agatcttctc tttaggcata cccagatctt tctctctcta aagtctccac ctttcacggt 120

ttttgcttc tcacctgaat ccaatcaatc tcgccggagt gaattcacct tcctccggtt 180

gactcgtcgg acttagtccg acctttcaat tcgtagattc tgtttacaat tcactgatcg 240

tttgattaga aatgggttac ttgttcttct aagtctctct ttagctgaaa gtttgttgct 300

ttacgactct tcgatttacc cttacttgtt caagttcttc atcaaattcg taggttatgg 360

ggataaagaa tcactttcac ttactccaac caagttggcn 400

<210> 3703
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H2

<400> 3703

aattctccgc cgnccggtca agaataaanc gggncgacnc acgcgtccgg tcaaaggtga 60

aagaaaatct gaaagcaaag cagagagcag ctcccttccc ctcgnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnntcat cgcagcttct cctccgacca tttgactgcg 180

actgtgatta caacacaccg ttgatcctac gaaaaagagg taatggatac tggcggcaat 240

tcgctggcgt ccggacctga tggtgtgaag aggaaagttt gttatttcta tgaccctgag 300

gtcggcaatt actactatgg ccaaggtcat cccatgaagc cccatcgcat ccgcatgacc 360

catgccctcc tcgctcacta cggtctcctt cagcatatgc angttctcaa agccctttcc 420

tgccccgcga acgtngatnt ctgccggctt caaagccgaa caactatgtn 470

<210> 3704
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H7

<400> 3704

actttgccgc cgccaggtac aggtcanaga attcccgggn cgacccacgc gtccgctctc 60

gttctcatct ttctctctaa gagattttgt aggtgacaat caaaagtttg acaaaatggt 120

gaagtttaca gctgatgagc ttcgaaggat tatggactac aaacacaaca tccgtaatat 180

gtctgttatt gctcatgtcg accacgggaa atccactctt actgattctt tggttgctgc 240

tgctggtatc attgcccaag aggttgctgg tgatgttcgt atgactgata ccagagctga 300

tgaggctgaa cgtggtatca ctatcaagtc cactggtatt tctctctact acgagatgac 360

tgatgaatcc ttgaagagtt tcactgggag ccagagacgg naaaccaata actcaacaaa 420

cctaatgatc cacctgggca cgttgaactt tcctccng 458

<210> 3705
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H8

<400> 3705

tccgcggccc gtaaaggtca nagaattccc gggccgaccc acgcgtcngc ccacgcgtcc 60

gacgaatatt caaaaaaaaa aatttctttt ctctttctaa caccacagat ttcgcaatcg 120

tgttttgatc tgattcttcc aggattctcc cggtggcgga gagaagaaac aaaggaaacc 180

cagaaagcat ttttctcaat ggcgtcgact acacgagaaa agtttgtatc tttcataaac 240

aacagatggc tcgtcttcgt ggctgccatg tggatacagt cttgtgctgg catcggttat 300

ttgttcggaa gcatttctcc ggttatcaaa agctccttaa actataatca agaaggagct 360

ttccagactt ggagtcgcca aggatctcgg tgatagtgtc ggattcatcg ccggtactct 420

ctcctgagat cttgcctccn ttgggccgct ccttcctggt tgggcgccgt t 471

<210> 3706
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H9

<400> 3706

cgttacctnc cggtgccgtc naaaattaaa gggtcgacnn acgcgtccgg agaagtcgag 60

gtctctctat ctctctcttt cgtacacttc gcgcttctct tcctgtcaga ggcgtttctc 120

atggctcctc ttactctctc cgttgatgtg aagagctctt cagcgacctc tcatgatgtt 180

tcnaagaggg taatgcagag ttcacagctc aaaataaaca aaggnttttt tgcatctgtt 240

aatacacaag aagataaacc ctttgatttc ttccgcactc tctttgaggg gtttatagca 300

ggaggtacag ctggagttgt agttgaaaca gctttatacc caattgatac tattaagact 360

agacttcagg caggcagctc gtggaggtgg aaaaattgtt ttgaagggtc tttattcagg 420

attanctggg aatat 435

<210> 3707
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-A1

<400> 3707

acgcgtccgn tcattctctc ttcttctcct tcttccttct cctccaccac aaagcggtag 60

gtttctctct tcaacaatcg tctccccatt aggcacattg ttgagggcag ggtagtctcg 120

tgagttctct tctcctgagt gtaactgtgg ttaaaagctt agccaagatg caggggggaga 180

gggccagtct tggctattta tcagaggcct tgaactttga gcatggttct tcttcaagta 240

atggtgtgat agatcattgg gagaatattc acagtcttgg tgataatgac ttgcaggatt 300

acatgattgc aaattctgaa tcaaatactt cgcttgcaaa ctcagtttat cacgagcaac 360

angggtttac gcaagattta gccttggtga ggctaagctc ctaagtgggc acgaaaggat 420

gaagcttcca antcnaaaat ggagcaaacg aat 453

<210> 3708
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B3

<400> 3708

gtttacgttg cccgnccggg tccaaaatta acgggtcgac ccacgcgtcc gnccacgcgt 60

ccgcttcatc ttcttctccc gtaaagctct cgcgtctatg gcggtcaaat gtttctctct 120

ttatctgatt ctggcggcga ttgtaatcgg cggcgtcacc tccgagtaca tagagtacaa 180

cacaaaaccg agaatcgtcc ctgagaaaat caatgttcac ttagttcctc actcacacga 240

cgatgtaggt tggcttaaga ccgttgatca gtacnacgta ggctccaata actccattag 300

gggaacttgt gttcagaatg tattggattc tgtaaatcgc ttcattgctt gatgatgaaa 360

atanaaagtt tatttatgtt gaaatggctt tctttcaaag atggtgggag gcaaacaaaa 420

cantgctaan gaaagttaaa gtcaagaagc ttggttgant ctggtcaact tgagnttcat 480

aaaatggtg 489

<210> 3709
<211> 336
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B5

<400> 3709

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ttttgcaact tcgatacgta aattacgtaa ttagggtttg ataatgtttt atgtaaccag 120

ccccgaattg aattagttcc aaagttaggg tttttctctc tcaaattagg gttttgcccc 180

aattgtgttc ttatattgaa tttaccattt gcgcaggtta tgtggtggag gttgtttcca 240

atttaaagta tgtaccttta ggttangaaa ttaggcttat ttgtttctcc agtgggtttc 300

attgtagana caaattgaat tttangtgtt aatgtg 336

<210> 3710
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B6

<400> 3710

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ttctttgagc tttccctttg agctctcaca cgagcggctt cttttgtcat ctcacctttt 120

ccttcattct ttcttccttc aaattctggt ttttttcaca gatcgtttc tcagattttg 180

actcttttg gtgttgttgt tgttcttctc cttcgtgaag tggaagaaga anataacaaa 240

actgggtttt ttatatctgg aattctgaag aaattcttca cggatttgat ctgtttaaac 300

tanaaaagtc ttgattttta gaaatnagct aaaaataaga cacggtttan gggtttangg 360

tttgactaga aacaacanta ctgaaanggg gtgtgaggtt tcaaagttan ggt 413

<210> 3711
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-C5

<400> 3711

anttatggac gaagcaattg attacctaaa gttgctgaaa cgagacttaa tctccacaga 60

ggttangaac caaagctcca ccactcacaa gtcaccaatc ttgttgctta aagagacaac 120

atggggaaca agaaatctgc anacagataa ggcgtgaaag attctgacga gttaaaacgt 180

gtgaagtggg tttttgggta cgtatcctct gcaccagctt tttagctgta natantggac 240

tacttttaag tattatatat gctactgcaa atttcaaaaa gttaangaat gaaaagaggt 300

cactttcttc ttctctctgt gtggaatgna aagccaanag tcntcaaggg ncantgatgg 360

acaatganta tcgtttttgg ctgaagtgtt ggntggtgaa atcacaagcg c 411

<210> 3712
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-C6

<400> 3712

tgttaactca gatgatacaa tacgaaggat aagggaatgg agacaatctg gaggaatgca 60

gccaagtatg cgcaatgctg ctcaagtggt tcacgataca ttgccaagcc cttctgtttc 120

agcttctatg aagacgcaca naccaaacca ggccaattcc ttctcaacca ttcgctagtt 180

cttcaccttc ttttcatcct caagctgatc ccactcaccc gtttgcttca tcgacagcta 240

aacgaggacc tgttcctatt gtcaagggca aaaaaacaca aaccaagttt ttcctggctc 300

gtcttccaca aaacatgccc cataccatcc ttcagatnaa cctccacgag gacaaagtca 360

tgaacagatt accatctgtt cctgccaagt tnaaag 396

<210> 3713
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-D3

<400> 3713

acgcgtccga taaaatcaaa actaacaaaa aggaaaanaa aaaaaaaana agtatctcac 60

cggaaacgat ttcttcgccg attccaagac ttttcttcct aagcttttta acagatccgg 120

tgaaaatttc aaaatccgaa gaattctcta aagctagggt ttcttaattc acgagacgga 180

ggtgatataa ttccccccg tcgtagctat gatgatttcg agaggtttgt ttggttggtc 240

tccgccgcat atacaaccgt taactcctgt ttctgaaagt ttccgagcct cctgagtctc 300

catctcctta ccttggatcc tggtgctgac cacngtggta caggaacagc ggcgcaaagc 360

ngatgatgaa ggaggaaaat gganggagcc ggangagatg gagcctcctc ctgctgctgt 420

tcctttctcn caagcctatt tgc 443

<210> 3714
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-D8

<400> 3714

agcatacaat acaatgtcta ctcttgtttt attcctccaa ctttttttcca tcctaccatt 60

agcacttggg ttgaaccacc caaattgtga cctgaccaag actcaagacc aaggctctac 120

cctaagaatc ttccacatag acagcccttg ctccccccttc aaatcatcat ccccactctc 180

atgggaagcg cgtgtgctcc agacgctggc tcaagaccag gcccgtctcc agtacctgag 240

cagcctcgtc gccgggagat ctgtagtccc cantgcctca ggggcgtcaa atgttgcaaa 300

gcactacnta cattgtcaag gctttgatcg gtactccggc tcagccgctg ctcctagcca 360

tggacacgan cagtgacntg gcttggattc cttgctcngg ctgcgttggc tgtcccttct 420

aacagg 426

<210> 3715
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-E1

<400> 3715

gattcttgcg gaacgaagcg acctacagtt ccagagagaa ctccatcaat ggcttcaagg 60

gaactgcttc agctaaggan aaagacaaac tgtctctggc ttaanggaag ggttccataa 120

cgggagggaa aatattgtcc atgaaaatac tagcaacact gataatgata atagcaatac 180

ttccacaaat gctcttgcaa ttgcaatcac tgctgggaat tctcagcgtg taaccnatga 240

gagttcaact tcttccanac aagggaatga tantcccatt ttgcctgata actcagaaag 300

cagcctanca aatgcggnta gagactggga acgaggatac cantcaaana aangatctgg 360

cangaaaatg gtcccagtag atgaganggc caaatttggt gcaagngaac tctaaacgca 420

atttgantgg gtttg 435

<210> 3716
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H1

<400> 3716

tttacnttcc gggccggtca agnananacg ggtcgagnca cgcgtccnta ataatcacaa 60

actacaaaag tagaaagaag aaaaaagaac aaagtatcag ttcttgaata tttgcatcaa 120

tggaggaatc caaaacacct cacgttgcga tcataccaag tccgggaatg ggtcatctca 180

taccactcgt cgagtttgct aaacgactcg tccatcttca cggcctcacc gttaccttcg 240

tcatcgccgg cgaaggtcca ccatcaaaag ctcagagaac cgtcctcgac tctctccctt 300

cttcaatctc ctccgtcttt ctccctcctg ttgatctcac cgatntcnct tcgtccactc 360

gcatccaaat ctcggatntc cctcaccgtg aatcngtnaa aacccgggag ctccggaaan 420

09/903,542 - 03/05/2002

ttctttnanc tctttgntcg gaaggaaggt ctttttng 458

<210> 3717
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E11

<400> 3717

tgcccggcgc cggtcaaaaa actcccgggt cgacncangc ctcnngnatn attcattttn 60

agtgcagtta catcttccac tgttatccct ccctgtggtg ggcgtacaga gaaggatagc 120

tctttatatt ttgaaaaaga taacaaacat cgaaatccat catccactgg catagagatt 180

tgtgaagcag aagcagaagc tgctgcttca gctattgctg tggcagccat aactaatgat 240

gaaaccagtg ggaatgcctt gagtactggc tctgtattac ctgttgaaac caaaatttat 300

ggaggaacag agttagatga tggggcagca agtggtactg ttggtgggca gactagtcga 360

tcaaaagctg aggaatctct cattgtttct ctaccagcag atctttcagt ggacacccca 420

atctctctgt ggccacaatt accaagtcca canaatca 458

<210> 3718
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E4

<400> 3718

acgcgtgggc ggacgcgtgg gcggacgcgt gggggcaaat tttcccattt ttgattccga 60

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gtggtgaagt tgaccaaatt tataaactga tccaatttta aaatctaaga gatatggaga 180

acatggacga tttctcaccg gagaatgttt tagcaccacc accaccacct cctccaatga 240

agaagtcaac ggatctgttt atgcaaagaa gcaatagctt tgtttctaaa gctacgagag 300

attcatggga tcgtatgttc gacgaagctc atggagctga tgttttgatt catactgatg 360

ataatgggtt gattacgccc aatccnaagt ccancggaat gggcttc 407

<210> 3719
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E7

<400> 3719

acgcgtccga ttaagttctc ttgatgatgt ctggttcaag attagcctct agactaataa 60

taatcttctc aataatctcc acatctttct tcaccgttga atcgattcga ctattccctg 120

attcattcga cgatgcatct tcagatttaa tggaagctcc agcatatcaa aacggtcttg 180

attgctctgt tttagccaaa aacagactct tgttagcttg tgatccatca gctgttcata 240

tagctatgac tctagatcca gcttacttgc gtggcacggt atctgcagta cattccatcc 300

tcaaacacac ttcttgccct gaaaacatct tcttccactt cantgcttcg ggtaaaaagt 360

cangggttcc c 371

<210> 3720
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E9

<400> 3720

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gtgcttccgt cggaatccaa ggaatcgctt gggctttcgg tggtatgata tttgccttag 120

tctactgtac cgctggtatc tccggtggac acatcaaccc agcggttact tttggtctgt 180

tcttagcccg gaagctgtcg cttactagag ctctgtacta catagtgatg cagtgcttgg 240

gagctatctg tggtgctgga gtggttaaag ggttccaagc ctaagcaata ccaggctcta 300

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atnattggca cattcgttcc tgtanacaca atcntcctca acaac 405

<210> 3721
<211> 405

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F1

<400> 3721

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atgggagaga attaccaatg atgaatggta tcaaagaaga tatcaaatct attggagttt 120

tggattctgg gatttgttca gaagctctct ttagtcttgc ttctcgtttc aaatcattgc 180

agatgatgtg taaaacacat tttgaagagg aagagaaaga tttattgcca atggtggaag 240

ctgcagaaat ggggaaagag aagcagaaga aattgatgaa tcaaagctta naagttatga 300

gtgggactca ttctaactcg tttgatttcc tactagaaag ncccantcca caagaagcta 360

tgcctaanat nnnctngccc angacattgg gggatccaaa anctt 405

<210> 3722
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F10

<400> 3722

aattctgctt tacggacctc ctggatccgg gaagactctt attgctcgtg ctgtggctaa 60

tgaaaccgga gcattcttct tctgtatcaa tggaccggaa atcatgtcga aactagctgg 120

tgagagtgag agcaacctca ggaaagcatt tgaggaggct gagaagaatg ccccgtctat 180

catattcatt gatgagattg actctattgc accaaaaaga gagaagacga atggtgaggt 240

tgagaggagg attgtctctc agctccttac gcttatggat ggactaaaat cacgtgccca 300

tgttattgtt atgggagcaa caaatcgtcc caacagtatt gatccggctt tgagaangtt 360

tggaagattc gacanggaaa ttgataaccg tgtttccgaa tnaaattg 408

<210> 3723
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F12

<400> 3723

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ggattgtaaa ttgtggcatt aagaacgatt gtgatcctgc attggcactt cttggagact 120

atatagacaa agaggattca tctgtcagaa tcggtgctat catgggtctt ggaatttcat 180

acgcaggttc ccaaaatgac cagattcgaa acaaattgtc cccgatactg aatgatgcaa 240

aagcgcctct tgatgtgatt gcatttgctt cactttcttt gggaatgata tatgttggtt 300

cctgtaacga agaagtagcc cagtctatta tatttgcttt gatggatcga agtgaggcag 360

aactgggtga tgccctcact cctttcctgg cactngggcc tggg 404

<210> 3724
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F5

<400> 3724

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ctcccagacc cgacccgttt cctgttaccc gactcgattc cgacgccggt gctctcttcg 120

tcctccaatc aaaaggcgag tggtggcacg ccggatttca tctaacgacg gcgattgttg 180

gtccgacgat attgacatta ccatatgcgt ttagaggatt aggatggtgg ttagggtttg 240

tttgtttaac gacgatggga ctcgttactt tctacgctta ttacctcatg tctaaggttc 300

ttgatcactg tgaaaaatcc ggccgccgtc acatccgttt ccgggaactc gccgccgatg 360

ttcttggatc tggattgatg ttttatgtag tgatctttaa tcaaacagct ttcaacacct 420

gggaattgga attgggccaa ttcnacttgc agggtc 456

<210> 3725
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F6

<400> 3725

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tttttaatct ctgattgaca gatttgaaga gcgtgacaaa ggaagaatct tttattaaaa 120

caaattcttc tgttttaatc ttgggatggc ctcggtgggc atagagccta gtgccgcggt 180

tagagaatct actggaaacg ttactgatgc tgatagatta cccgaggaga tgaaggacat 240

gaaaattcaa gatgataaag aaatggaagc tacgattgtt aatggcaatg tgactgagac 300

tggccatata atagtaacta ctataggagg aagaaatggc cagccaaaac agacaatcag 360

ttacatggcg gagcgagttg ttggacatgg ctcctttggt gttgtgtttc anggcaaatg 420

tttaaaaaca aggagaaact gttgcaataa agaaagttct 460

<210> 3726
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F9

<400> 3726

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tcttacggcg gcggaagtca tggcgaacat agaatcagaa gcagtcgatt tcgagccaga 120

ggaggatgac cttatggacg aagaaggtac agctattgac ggagctgatg tttctccacg 180

cgcgggacat ccgaggctta agtcggctat tgccggagct aatggcgaat cagcaaagaa 240

gaccaaaggc cgtgggtttc gcgaggagaa agattccgat cgtcagcgtc gtctttcctc 300

acgcgatttc gaatcacttg gttcagatgg ccgtcctggt ccgcagagat ccgttgaagg 360

atggattatc ttggtctctg gagttcatga aganaccc 398

<210> 3727
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G10

<400> 3727

atctgaaatt tctacgtatc cccttggaca cgtctacgag agaggggact tcagatggag 60

ttgcatctca aanaattacc atgttcaaga atattagtgg ccaccaggga ttttttcttt 120

ctggctcaag gccggggtgg tgtatgttgt tcagagagcg actacnattt cattcacagc 180

tgtgcgacgg atcaattgcg gcctttactg ttcttcacaa tgtgaattgc aatcacgggt 240

tcatatatgt cacagcacag ggagttttga agatttgcca attaccttca gcatcaatct 300

atgataatta ttggccagtg cagaagattc ctctaaaggc cacacctcac caagttactt 360

actacgcggg agaagaactt gtanccccctg aaaataacat aaccgggcca nc 412

<210> 3728
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G2

<400> 3728

cttacgttnc caggccggtc aagaatnacg ggccgancca cgcgtcnant gatngcagaa 60

ctaacaggat tcttacggaa ggctaatcgg gttctaaggc aagcaacact gattactatg 120

aataccttgg taacagccta tggtgataaa attggttcag aagcttatga agttattctt 180

gtggagcttt catctctgat aagtgtttca gacctgcaca tgacagctct tgcactcgaa 240

ctctgctgca ctctgatgac tggaaagagt tgtagtgaaa atatcagttt ggcggtccgc 300

aacagagttc ttccgcaggc actaacttta gttaaaagcc cattgctcca gggtcaagca 360

cttttggatc tgcaaaaatt ctttgaagct cctggtgtat catgcaaata cgagtttcta 420

caccttgctg ggnatcaatg cta 443

<210> 3729
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G4

<400> 3729

gggcccggtc acagaataan cgggncganc cacgcgtcna caaancttgg gatatccaac 60

accagtcctg aggagcttac tcccgaggag ataaagaagt ttgcgaggct tgatattgat 120

cctgcttcta tcacttggag aagagtgatg gatgttaatg atcggttctt gaggaagatt 180

actattggtc agggacctga ggaaaagggg atgactagag aaactggttt tgacatttct 240

gttgctagtg agattatggc tgttttggct ttgacaacct cactaggtga tatgananag 300

aggcttggta aaatggtgat tggtaacagc aaggcagggg atccnataac ancaagatga 360

tctcggtgtt ggaggagcct tgactgttcc tgatgaaana cccattaanc cgacactcca 420

tgcanacact ggaagggacc cctgtccagt catgcct 457

<210> 3730
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G5

<400> 3730

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cccatctgct gcttctcttc cagcttcaac agaaggtgaa aggaaagaag acgggaacac 120

tggaacgtgt gcgatatgtc tcgatgctcc atctgaagca gtctgtgtcc cgtgtggaca 180

tgtcgcggga tgtatgtctt gcttgaagga gatcaaatcc aagaattggg gatgtcccgt 240

ctgtcgagcc aagatcgatc aggttattaa gctgtaccgt gtctgaaaac aggtatcaac 300

aacaacatgg gattatctat atccttcatt gaactattga aactatatct ctctatttac 360

acaagctaaa atcaatanca aggtttcctt ttaaccaaag gctaaacaan tagttgg 417

<210> 3731
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E10

<400> 3731

acctgaagta nagccatcta aggaagtcac agagattctg atttataaaa ttgaccaaaa 60

caagtcacag aggagacccc ggaaaccaaa cagtcgacga ttacgaagat gaggatcact 120

gtcatgaccg ccggtgaaca aatcatcact ctcgatgtcg attctcagga gactgttgag 180

aatgttaaag ccttgctcga ggttgagtcc aatgttccga ttcagcagca gcagctgttg 240

tataatggaa acgagatggg aaattccgat aaattgaagt gccttgggtg ttaaggatga 300

tgatttattg atgatgatgg tttccaatgc ctcatctggg tgccactaag tgcgggcggg 360

ggaaatggan ttggggcatg aaatcccgna tggggtcaac ctttggancc ctg 413

<210> 3732
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G9

<400> 3732

ttactgatga tgattttaga gatcttgtgg acaaggttcc tccaggttgc agaatgacaa 60

tcatttcaga ctcttgtcac agtggtggcc taatcgacga agccaaggag cagattggag 120

agagcactaa gaaagaagcc gaggacgaag atgaatctga agaatcttct tcaagattcg 180

ggtttaggaa gttcttgcgc agcaaagtgg aaggcgccat cgagtctcga gggtttcaca 240

ttggagggaa caagaaggat gaagatgagg cggaagaaat cgagactaag gagattgagc 300

ttgaagacgg agaaacgatc catgccaaag acaaatctct tcctctgcag accttgattg 360

atattcccaa gcagcaaaca ngggaat 387

<210> 3733
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C8

<400> 3733

acgcgtccnc ccacgcgtcc ggctgttccc acgggaagcg ccaatctctt tctccggcct 60

ctcatcctcg ccgttctctc ctttcttctt ctctcttcat tcgtctcctc tgttgagtgg 120

ctcgatatcg attcctcaga tctcaaagct cttcaggtca tcgaaacaga gctcggagtc 180

aacagtcaac gttcttcggc cagtgatgtc aacccttgcg gtcgccgagg agttttctgc 240

gagagacggc actctgccac caccggagaa tacgttctcc gtgtcacgag gctcgtctac 300

cgatncagga gcttgacggg gactatctct ccggtcatcg gaatgttgtc ggaagctcaa 360

ggaacttact ttgtctaata accaagttgg gtcaaacgct gttccggtgg atatcttaan 420

ctgtta 426

<210> 3734
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C9

<400> 3734

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ctcgccgttc tctcctttct tcttctctct tcattcgtct cctctgttga gtggctcgat 120

atcgattcct cagatctcaa agctcttcag gtcatcgaaa cagagctcgg agtcaacagt 180

caacgttctt cggccagtga tgtcaaccct tgcggtcgcc gaggagtttt ctgcgagaga 240

cggcactctg ccaccaccgg agaatacgtt ctccgtgtca cgangctcgt ctaccgatnc 300

angagcttga cggggactat ctctccggtc atcggaatgt tgtcggagct caaggaactt 360

actttgtcta ataaccagtt gggtcaacgc ctgttccngt gg 402

<210> 3735
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D1

<400> 3735

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tacagaacca agagcctctt tctaatcgga gttactttaa tccccttgaa ccatgtcaaa 120

gagaaagact aaagagccaa aggtcgatgt tgtgactctt ggaccatctg ttcgtgaggg 180

agagcaagtt ttcggtgttg tccacatctt tgcttcattc aacgacactt tcattcatgt 240

tactgatttg tctggtcgtg aaactcttgt ccgtatcacc ggtggaatga aggtgaaagc 300

tgatagagat gagtcctcac cttacgcagc tatgcttgca gcacaggatg ttgctcagcg 360

atgcaaggaa cttggtatca ctgccatgca tgtgaagctc cgtgccacaa gtggaaacaa 420

agaccaagac acctggtcct ggagcanaat ccggccctaa aanccctggc ccgttccg 478

<210> 3736
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D2

<400> 3736

aaacactcca actacgaatc tacaatcatc gagcacatac aaagaggaag atttcaaatc 60

caatcatcaa tcatctcttt tgaatgatcc gattccatct acttgctcct taaatttatt 120

gttgatccgt ttgaatttgg tgtttgttga ggcggagatc tcgaagatga agcagcttct 180

atgttatctt ccatggcttc ttcttctctc tcttgtggtt tccccttta acgaggctcg 240

attcgttgtg gagaagaata gtttgtcggt gacttcgccg gagagtataa aaggaactca 300

tgatagtgca attggtaact tcgggattcc tcaagtacgg gtggaagtat ggctggtacg 360

gtggtttaac ctaaagagaa tcagaaatcg tgttaaggaa nttaacgaat t 411

<210> 3737
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-D9

<400> 3737

actgaaagca caagagataa gattagaaca gctaagataa ggttggtggc tgctagaaag 60

atgaaggaag cggccagaga ggctgaggcg gttgcaatcg cagagattga ggctgttact 120

ggaagtatga atgttggtaa ggccgaggct gtgactatct ctgctgaaga gtattctgtg 180

cttgctcgta gtgctagaga cgcagaggaa gaggcgagaa agcgagtgga agatgcaatg 240

tcgagagttg aagaagctaa tgtttcaaag aaggatgttc tgaagaaagt tgacgaagcg 300

gctcaagaaa ttgaaaccag caagagagta ttggaggaag ctgtggagag agttgacgct 360

gcaaatgctt cgaagatcga agcagaagaa gcgctgcgaa aatggcggtc agagaa 416

<210> 3738
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E10

<400> 3738

aatccttcac ttgtagccca caagaggtca tctcaggagg tgatttcggt cagtgcacgt 60

attgtcatct cctacttggt ctccattact ccagccaagt agagtttgtc gcctctgctt 120

tttcttacac cattgtccaa gctttctcct ttttcgaaga aatctggaga gagatatgtg 180

ctgacatcaa ggaaggtaat cttagctcaa gaatcactct gcccaagatg agaaaagctg 240

tattggctct gatcagacca aacccgtctc ttgcttctca tatcgaggag atctgcttag 300

agctggaaac aaatctcgga tggttcggtt tgatttcaaa gctttgggcc aaatgcaaaa 360

tttatctcct caatcatgac gggttctatg ctgccgtacc tgaataagct gan 413

<210> 3739
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E12

<400> 3739

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ctcttttgtc ccaagcttgt ctgcttctgt ttagttgtta tatgatgatg gattgatgtc 120

tgtattcatc tttgttatag agtatttgtt attgtttgcg ttcaaatctt catttttgg 180

ggtcttctat caattgtttc tttggtatct ctttgtgaaa taaaagattg gtaatattgg 240

gtattgtttg ttttcatttt ccatgtgtac gtacttttnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nn 342

<210> 3740
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E4

<400> 3740

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cgatggtgga tctatgcctt ctattttccc gacgcactac cattggtata gcaccgagtt 120

cgccgaagaa tctcgaatcg tccatgttta ccacacagtc ttccatggtt tctccgccgt 180

tgttactcca gatgaagcag ataatctccg taaccaccca gcagttcttg ctgttttcga 240

agaccgacgt cgagagcttc acaccacacg ttctcctcaa tttcttggtt tacaaaacca 300

aaaaggacta tggtcagaat ctgattacgg atcaagacgt aatcattggc gtttttgaca 360

ccggaatttg gccgggagcg gangagtttc tcagatttta acctcgggcc aattccaaaa 420

agggggagaa gcgttt 436

<210> 3741
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E7

<400> 3741

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tcactgttaa accctcacaa aatttcctca ggactaataa tctgcgatcg atcgtcgtta 120

tgataagtct ctaaagaaga ttgatgattc tggattacat tatcatggga ggagcttgtt 180

caaggaagag agatcaacaa gttgaggata ttttaaacag aggtgtctct ggaaaatata 240

gcaagagttc aagttcgaaa tggttagcta cttcgctctc taggtctggc tccgatgtta 300

aacggaagaa tggagaatgc ccgtcgctta tggagctctg tgtccgcaag atacagggag 360

gacattggnt agatatacca aggttctccg ganctaacct aga 403

<210> 3742
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-E8

<400> 3742

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ttgttttgtc tggtcctgtg ctaaatgaac gggagcttga gggtttgctt ggtgatccac 120

tgttaaaatc tcaaatcttg cccacatttt ttgacattcg tagaggaatt gaaggatctt 180

tgaagaaggg tcttcnaaaa ctttgtgaag ctgcagatga agctgttcgt aatggttccc 240

aagtacttgt tctctcaaga cagatctgat aatccggaac caactcgacc tgcaattcca 300

atgttgttgg ctgtggggtg ctgttcacca acatctgatc cagaacgggt cttcnggatg 360

tcancttccn ntanttgcag atacaagctc antg 394

<210> 3743
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-E9

<400> 3743

acctctcctg atcccgtaat gaagaaaacg aagacgatgg tggcttccat ctccaccctt 60

attagacgga cctatccttc aactaaccag tgtaattcac tcgcgacgat tcaatcacaa 120

acccaattgc ctcgcgaatc tctgcaacat cattcttcag ctgagggacg actccgattc 180

tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240

gccttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300

tttcagattt ttgggcctgg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360

gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat ctaag 415

<210> 3744
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F1

<400> 3744

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gcaagcaaca cacagcggaa ctggcctcga gatttgtacg agaagatagc tcgaagcttt 180

tgaatctaag aaattcgaat acttgtctaa aaaagatctt gtaagaagct gttaaaccca 240

tttttgttac ttaacctcga ggatcacttt ttgttnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnngg 308

<210> 3745
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F3

<400> 3745

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aaaaccctag aaacgaagaa agatcaagat gggtttgatt agcanagaag agataagcaa 120

aacaagaaga tattcatctt ctctttggag aggtatcaaa acgatctttg ttctcttcac 180

tatgtttctc tctttcatca tcttttctgc tccgatcttc ctcgccgtcg ccgacgccgt 240

cctcccctcc gcaatcctct catcctcctc accctccctc aaccgcctat ctccttctag 300

ttttccggcg acgatttatt cttacctcag taactacgat ttccgttact ctctcatcga 360

catacctctc atctccataa ttagatttgg caatnaanta agcctttaac gggcttggta 420

ncg 423

<210> 3746
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F8

<400> 3746

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aagagagaga aatggcgacg acaacaacan aagcaacgan gacatcatcg accaatggag 120

aagatcagaa gcagtctcag aatcttcgac atcaagaant tggtcacaag agtctcttac 180

agagcgatga tctctaccag tatatactgg agacaagtgt gtatcctana gaaccagnat 240

cantgaatga actcagggaa gtgacagcaa aacatccatg gaacataatg ancacatcag 300

ctgatgaagg acagttctta ancatgcttn tcaagctcgt taacgccann ancacaatgg 360

agatngggag ttttanantg ggctacgctc cgttttcgcc annggntcct tgcccctccc 420

ggg 423

<210> 3747
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-G1

<400> 3747

aaaaaaaaaa aaaaaagcac atgcggtttc ctctgcttct tccttcttac aagttggatg 60

tctccgtctt ccacggtgct tataaattag tgaaacaaca aaagctttgg tcagtattta 120

tattatcatg catttctaat ctctactttg tcaattccta tactttcact ctcttccaat 180

tatataatct ctggtccata gaaaacatcg gtctcttgtc accgttgatt ttatttggtc 240

aaaatcattc ttcttctcgc tgaataatcg ttgatttcac ttcttcttct ggtcttaaaa 300

aaattcaaga tctatacgag aaaacacaaa acaagtaaaa ctttttcaac cgtttttcct 360

gtcggtaaag tttggattcc tcctaataaa atttgggcct aatgtncacc aaaagaaaa 419

<210> 3748
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C7

<400> 3748

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tgccgagctt agttatatcc gtctatgcta ctgcggttct catcgcttgc tggtggcttc 120

ctgaaactct tcatacacgt tgtagaattg cacaagggag acttaatcca acagagctaa 180

acgatgatga aagtagagga ggaggacttg atgaacagaa aataattaat aagccaagtc 240

tcttgaggaa tcgtccattg atggctatca tcattgttta ttgtgttttt tccctccaag 300

agatagcata caatgagata ttctcactct gggctgttag tgaccgaagc tatggaggat 360

tgagcttctc atctcaagat gttggtgaag ttttaactat atcangactt gggcctc 417

<210> 3749
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H7

<400> 3749

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aacaatttta tctgtggagt tttctggagt tgctagtgga agaatctgtc tcacagaacc 120

agaaatagtg tttgtgggag ttacatgttt tgcaatagag atgacatatc ggggtaatgt 180

gcatgatttt agtggtgatt aangagtctg aagttgggan gaatgtcgga cttgtacatt 240

catgagctan gcgattatct ttcggatgaa tttcatgggg aaacgatgat ggtatagttg 300

ccagactcag cgtaatgagg atgngaggtc agtttccaaa ttcctagttt agtaaacang 360

gaaagaaaac gaaacaaaat gatgataatg ggtaatggga ccaaaccatc ctaaaagnag 420

taatacnttt tatcaanngn gnagaaggca anaccatgnt aacggaaaaa aatcccatgg 480

gccctngacg aaaa 494

<210> 3750
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-A4

<400> 3750

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gattcctcgg tggtgaaaac gttctttgta tcatcctccc taagtgggga gttatagcct 120

tcaagttggt ggtaaacaaa caaatgggcg ggcggtggga aaacgtcaaa gcccggtgtt 180

aaagccggga actggacggt gatgggatcc gatgggatca agaacaagtt caagaacaat 240

cataccccga agggagtttc tcaattgtca tcatcgaatt tcgggtcaga gccgtcagta 300

tcgggacaag atgaacatag attgtggaat tcgatggtgg aggaagcaga acgaatgcag 360

tattcaaata ttgacgattc gttggatcag gagacgaaga agcggttcgt gtcccatgta 420

aagctccaag tanaaacaaa ngaagacact ggggtacntc aaaacaaagc tnaagtttcc 480

aaacaanaat gtccccaa 498

<210> 3751
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-A5

<400> 3751

taagcagata atggatctca tgaacgacaa cagcaacaat tcacaagacg gcgatcatca 60

gaactaccgt gtcggcgata atggattgga atcgaagaag gaagctatct tccctagcta 120

tgatttccaa cctatgcgcc ctaatgcctc cgccggattg tctcaccacg ctttagatct 180

cgccggatct gttaattcca cggctgctan ggtttgggat gcgtctgatc ctaaaccggt 240

ttcaagcttc ttccgcaaga agttatggct ctatggactc tctcgaacct tcaaagttgt 300

ttgctgagaa ggatcgaaat tcccccgagt cagcgattat atctgcgatc gattggacaa 360

tgaaaggcca tgctgataaa ttgttacaag ttaagggaag ngtc 404

<210> 3752
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B12

<400> 3752

nnnnnnnnnn nnnnnnnnnn nnnnnnaaac aagattatta gattaaggag gagaacacat 60

atcatatttc angaaagggt gaaaaaacag atcctaaatt agatgtagaa caanaactat 120

tttgtctagt tgtcattttt tcntgtcttg tcctaattta caacttgtca tttcaataca 180

aaatattgan aaaggngaaa caaattgaag aaaaaaaacc aaaaganaag aatttgtcac 240

aagatgttga taatcgcctg cttcttggaa caccctaacg aaaaacaaat catcttcccg 300

angatctctt cttgccaaac acactctact gcgacgtcgt ttggtttctc gttactcaca 360

ttganaaatg ttgactccga atangcctaa ccacagtctg aaccgggact anaccgggac 420

t 421

<210> 3753
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B2

<400> 3753

tgatgtccct gcttctgtta ttgcagcttt caatagtcag cttcctggaa ctcaatctct 60

tggtgctact ttgtttggtt ctactcctcc tgttcctgac aacatcttgg ctcaagcctt 120

tcagacttct ccaggaactg ttaaacacat caaatccaag ttccaaccca agaaatgatc 180

atcacccttc ctttatattc attactacag ttctgttttt ttctaaaggg aagatctttt 240

tatcttcttt gatttgtctt ctgtnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnngg 308

<210> 3754
<211> 267
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B3

<400> 3754

gacacagaga gtcacagttt ctatctgcga aggccaacaa atgaaatatt tcaggttaag 60

aaactatgtc tgatgatgtt attgtgaact agttttgagt tataacacta tttttactac 120

atctctgaaa agaagactgt tgatattagt tttgaagaga ttattcccaa acaccatttg 180

ttttggtcaa catgaacaac ttaattgttc tttgtttatt gttgcnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnngg 267

<210> 3755
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B8

<400> 3755

taaaaaaact gattgagaca gagagaagaa agattgcttg aagaagacga agacaaaagg 60

aggaaacttt cttctcattt caattaaaaa atccattttt ttctctgggt ttttctttct 120

catgtgattg tgtaattgat tcttatcgtt ttctcgcaat cattacggct tcttctgaaa 180

tcaacacgct caatttcctt ccttggaaaa ttttggggtt ttggttttgt tcctgtttca 240

ttcgtgtgag atttgattac ttaagcgctc agatgaaatc atgataatta agaagcacaa 300

gagagaggaa attagagtcc tttggtcaat ttattgggga acttgattgg gatttagtca 360

gcttcaaagt gaggaactga agatggagaa tggccatgan gaaagattgg 410

<210> 3756
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-B9

<400> 3756

ttgattcgtt cgacgttttg tctcctacga ttcgtagagc gtttcagttt tcgatttctc 60

cgtcgtctaa ctcgccgccg gtgagtccac gaggtgactc ggactcgtcg tgttcgttac 120

tgagtcgttc actcgggtct aatctgggaa acgacgtcgt tgcgtctctc aggaatctgc 180

aacttaataa agtgaagtct tctctttcgt cgtcatacaa caatcaaatc ggaggatacg 240

gatccggatt cgggtcgcct cgtggatcgg ttttgggtcc tggtttccgt agcttaccaa 300

ctacaccgac ccgacctggt tttatgaaca tttgggagaa tggcttggag gaagaaccgg 360

cgatggaacg ggtcgagtcg ggtcgtgaac tgcgagagca actgttcgag aagct 415

<210> 3757
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C10

<400> 3757

acgcgtccgg ttccaacagc tgctatagca cctgcttcag cttgtgctaa gagctgtaca 60

tagtgctctt gttggcatca gaaatagtct tgatcctgaa cataaaaagg aatccatgga 120

aaaatactta ggccccgaca aacaaaggaa gcaggaccaa caccgataaa ctcagattat 180

ccatgttggt gtgacttccc ttttacatat agcatgtgta taggtttgaa tagagtaaaa 240

gtgcagaacc attcttttaa ccatcgaaaa gccaaagaga tgggaaaatt tttggtatag 300

aatataaatc ttttaaacat tatagaatca ttcagtttgt ttgtttcctg tacataaaca 360

ttttcgatct tgctccattg taaatttacc ccaccaagtt tgccaaatga gtgaaa 416

<210> 3758
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C11

<400> 3758

acctctcctg atcccgtaat gaagaaaacg aagacgatgg tggcttccat ctccaccctt 60

attagacgga cctatccttc aactaaccag tgtaattcac tcgcgacgat tcaatcacaa 120

acccaattgc ctcgcgaatc tctgcaacat cattcttcag ctgagggacg actccgattc 180

tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240

gccttttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300

tttcagattt ttggcctggg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360

gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat cctaag 416

<210> 3759
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C2

<400> 3759

taacttctac gttgnccngn cccggtcaan aatncccggg tcgacccacg cgtccnaatc 60

aattgcagag ctataagaga aggaatgcaa aatgggtctc tccaatagca gctgttgtac 120

ctaacttcca tcttcctatg cgcagtctcg aggataaaaa caggacaaac acagacgaca 180

taaggtccct tagagtgatc acagccatta agacaccgta tttacctgat ggaagattcg 240

acctccaagc atacgatgac ttagtcaaca cgcagataga aaacggtgct gaaggtgtga 300

ttgttggtgg tacaactggt gaaggccaat tgatgagctg ggatgagcac ataatgctta 360

tcggccatac tgtaaattgt tttgggggaa ggatcaaagt cattggaaac actgggaagt 420

nactcgacta gggaagctat tcatgccact gagccaggan t 461

<210> 3760
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C3

<400> 3760

actttgcccg gcccggtcna agnataaacg ggtcgagcca cgcgtccgca aaangacaca 60

aatgctctca cactcttccg tctccaaacc gacacacacg gcaacctcgc cggaaactgg 120

accggctccg acgcttgtac ctcctcatgg caaggcgttt cttgctcacc atcttcacac 180

cgcgtcactg aactatctct cccttccctc tccttacgag gaccattaac ctctctctcc 240

tccttagacc aacttcgtct tcttgacctc cacgataaca gactcaacgg caccgtttca 300

ccactcacaa actgtaaaaa cctcagactc gtttatctcg ccggtaacga tctctccggt 360

gagattccta aagagatatc ctttcttaaa cggatgatac gtcttgatcn ctccgataac 420

aatatcccgt gggagttatt ncanggagag aattccgggg gttacccggg gttta 475

<210> 3761
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C4

<400> 3761

acgcgtccgt ttctctttcg ccatnaaaac tctgtttcct ttttcagana ttctcaggag 60

aagattcatt ttaccctaag aaaanaantg tcnaacattc ttcagaatcg gcgatcttcg 120

ttttcctctt cgacgaaatc ttcattagcg agtcgtcaag caccatcttc atcggagaat 180

tctgttaaac ttatgccggc gatgacgaan aaangagcac cgttaagtna cattaccaat 240

cannanatcg cctcacgatt acaaaattct gattcggtac attgttcaaa caagtcaanc 300

gaaattgann gatagcacca agtgtttgcg ttaatgccag tttctctanc aatctgcanc 360

aaagcatagt tcctcanaaa gttgct 386

<210> 3762
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C5

<400> 3762

acgcgtccnc tggaacactc tttgtcggat ctgatggcca tggcaaccac ccagagaagg 60

atagtgaaaa ttgtaaagag aaaaatgttg taccacctgt taatgaatcg ccacatgcta 120

aagatactga tgatggcttg atagagatta cagtccctga gctggagatc acccgtgcag 180

aagcagaagc agaagcagaa gcgcatgttt gtgagagtga tgaggactta cccaattatt 240

ctgacattga ggctatgata cttgacatgg acttggaacc tgatgatcaa gataattttg 300

atctcgaagt ctccaagtat caagagccaa gacatgaaaa gaacaatcat aagacttgag 360

caggctgctc attcatatat gcaaagagcc attgcttccc gtggtncaat 410

<210> 3763
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C6

<400> 3763

acgcgtccgg catgctcgag aattcatgat ccaaagttga aagaaagctt cgagaactct 60

ccgaggcatg attcctatgt gcctaaattc gaggctgagc ttgcacagtt ttgcgagaag 120

ttggtgaatg atcttgatag gaaagttagg cgtgggcgag aacgtcttgc acaagaagtt 180

gaaccggttc caccaccttc tctatcagca gagaaagctg aacaattgtc tgtcttggag 240

gagaaagtta agaacctttt ggaacaagtg gaagcacttg gtgaagaagg caaagtggat 300

gaagctgaag cgctaatgag gaaggtggaa gggctaaatg ctgagaagac agtgttgtta 360

caacgaccaa ctgacaaggt actcgcgatg gctcaagaga agaagatggc antgtg 416

<210> 3764
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H4

<400> 3764

gcctacaagt ccggaattcc cgggtcgacc cacgcgtccg gtggaagtgt gataggatca 60

atggtcatta tcgtgggact ttatatactt ttatggggaa aaagcaagga taagtctgca 120

tcagtgacca aacaagaacc attagatctt gatattgaag gttgtgggac agcaccaaag 180

gaactcaata gtactgccca tcaagtgtct gcaaaataat aacttcaaga tatatctaac 240

tgtttcccat atcgtcaatg aatgatttct aacttgaact tttattaagt tcaagcccac 300

gcgtccgcgg acgcgtgggt cggagaattg tagtgatcgg agaaaatgag tggcgtggtt 360

gggtttgttg gtcttgantc tttcagcttc gaattngctt cntcgcttct tccgtcctgg 420

gtttaaaggt tcaagcattc cgggataagn tacagaaatt tatgggnnaa gttcattgaa 480

attgggaagg ncaca 495

<210> 3765
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F4

<400> 3765

nagagaagta attgatgttg atgatgagct tggngatgtt ganatgatat ctgatgatac 60

aagtanggag ggtgtcgaaa acgtggctat ggangtggac gacgtggaag agaaggcgga 120

gatgggaaat ggattgtttt ctgaggttgc cagtctgaaa aatgggagct tgagggtggg 180

tgaatgttct aaagctaata gtagttcact cgttgtgaat cgccctgtga ctgatcgtca 240

caagttttga agcatacaga aaggttcttg agagtgctgt gaancggact tctaaactga 300

aagacagacg ctttgttgat ttttttaaan nacagaggtc gttnctttac tacgaanccn 360

tgtcctcctt tttggnnacc agnataangn acccagttnn aggttgtaca acntncaggc 420

atttgtnccc cctttccaca acaagganga cga 453

<210> 3766
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F5

<400> 3766

acgcgtccga agaagagaat cgttgagatg gagagtgaag atgcttatag aatggcgttg 60

aagactatgg ttaaatgggt gaagaagaat atggatccat tgaagacgag ggtttttctt 120

gctaccatct ctcctactca ttacaagggc gaggattggg gaggcgaaca atgaaaaaat 180

tgttacaatc aancgacacc gatccangac atgaaccatt ggccatcana ctgcagcana 240

accttaatga aagtgatang agangaatta gnccaaagag canagtttcc ggtgacngta 300

cttaacatta caacaactct ctggctatcc ggaaaagacn cgcacacgtc aatccaanac 360

gaaaccattg gaaccccatt ngaccgaaan ggatcaagct agncaaatcc cggctaagct 420

actcaagact gtatnacatt gggtgccttg ccctggncnt caagatactt ggaaccancc 480

<210> 3767
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F6

<400> 3767

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aatcttccac catgggaaca aagtttttag ctctgggttt gtctctgtgt cttgttctct 120

caagcttcta tcaagtttct tgccaggatg aaggaactgg aagtttgagt actttagatc 180

taattgagca tgaatatcaa atgtcaattc tctccaaggc aatgaagcag tagatcaaac 240

tgagaccagt ggtcagaaaa acagtacagt gtctgataac aacactattt ctttgtctct 300

atctgaagaa cctgcantgg gaaactctta aagaatctgt tgatacatca agctgagtta 360

aggagctgtt actggatgaa gtcgataaac cttcaaagta tgttggacca tattgaactt 420

gaagttccga agcacatatc aatgaactta aagaagctgg gttctgatgg naacaacnaa 480

gttgaggaat ccaaagatga tgnaaga 507

<210> 3768
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F8

<400> 3768

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aaaatcacga aatctgattt tcctctcttt tgctcgaagc caagtctctg cttttacttt 120

gatccaccaa cttcatcttc aacctctcga ttttaggtaa gattcttaga gtgattttga 180

cttatctaag aatggagcta aagagcatta aggatgcgtt tgatcgtgtt gcgacgaagc 240

agaagctctc ttatagcaaa actaatgaga ttgttcatat gttgtctcaa gaaatcgata 300

aggctttgag catattagag gagacaccat catcaagata ctatgcttct tgatcataga 360

tctatcctcg ctgatgtgaa gaaagtgttt atggagattg ctccaatcac tcaacttgaa 420

gctactgaga aagagctaca tgcggntttg accaaagtac ccaaagttct tgagaaacaa 480

ctgaatccag acatatcaaa nggtt 505

<210> 3769
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G1

<400> 3769

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ataagcgatt gatctctccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cgctctcttc tacttctctc gatccgaccg 180

tgaatcacta tcggagcaat gactatgatg actccgccgc cgctagatca gcaggaagac 240

gaggagatgc ttgttccgaa tccggatttg gtcgagggac ctcagcctat ggaagttgcc 300

caaactgatc ctgctgctac cgctgtggag aatccaccac ccgaggatcc tccaagtctg 360

aaattcacgt ggaccatccc aatgttcact aggctcaata ccaggaagca ttactcctga 420

cgtatttgtt gtaggcggtt ataagtggcg tata 454

<210> 3770
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G12

<400> 3770

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agtccaaggg ctttgggttt gtcaactttg aaaatgctga tgatgctgct agggctgtgg 120

agtctctcaa tgggcacaaa tttgatgata aggagtggta tgttggtaga gcccagaaga 180

agtcagagag ggaaacagaa ttaagggtcc gttatgaaca gaatttgaag gaagctgcan 240

gnaacttnca cagttcaana cttgtatgtt anaganttttg ggtcctaagc atttcagatg 300

aggaaactta aagagatctt tctccctttt ggtaccgtta catcctagca agggtgatgc 360

cggattctaa tgggaacaag caaaaggctc aagttttgtt gctttcncna actcccgaan 420

aaagcaactg aagctatttc acagttnagc ggtaaaatga tcnaaagcaa acca 474

<210> 3771
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G2

<400> 3771

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ttgagctgca taagaaattt gttgcagctg ttaaccaatt gggatatgag aaggctatgc 120

ctaaaaagat tttggatctg atgaatgttg agaagctcac tagagaaaat gtggccagtc 180

atcttcagaa attccgcctt tacttgaaga ggatcagtgg tgtggctaat cagcaagcta 240

ttatggcaaa ctctgagtta cattttatgc aaatgaatgg acttgatggt ttccatcacc 300

gcccaatccc tgttggatct ggtcagtacc atggtggggc tcctgcaatg agatcttccc 360

tccaaacggg attcttggca aactcaatac tcccttccgg ggatcggtgt ccgcaaccct 420

tcctcctcct cctggcangg aatggttcct tgcaaaaacc aagaa 465

<210> 3772
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-G3

<400> 3772

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atttttgggg gatttttgag gtttaatctc cattgaaaga agctctggca tttctctgct 120

acagtgttgg ttttcagctg cagaattggt gaaaaaagtt tggtgaattt caggagcaga 180

gtatttaagt aattttgggg aattagtgag aaaatggagg agaaaggtga aataagtcca 240

agtggggtcg tcacagttaa gggagatgaa gctttggttc caagaacaga gtttcaacaa 300

aaccctagtt ttctccaatt cgtgagtccc acaacggtag tgactcctct ccctcctcca 360

ccaagctccg tcttccggct ccggtaccaa ccaccgtgac tcctggctca gccacaagca 420

tcaaccggat cagatccacg aaaaaagaac agagggaag 459

<210> 3773
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G7

<400> 3773

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tanattcgtt ctcagttttc gtgttggcta atggcgagcg cggcacgggg agagagcagc 120

aatccatacg gcggcggatt gggaaccgga ngaaagttcc ggaagccgac ggctcgtang 180

tctcagaaaa ctccttatga tcgaccaacg acttctgtga ggaacgctgg acttggtggc 240

ggagatgtca gaggcggcgg ctggttgtca aaattggtgg atccggcgca gagacntatt 300

acntatagtg ctcanaggct cttcnggtcc ctaanccccg gnnaaccgcc tcngggtctg 360

ggtgaggacg ccttttacaa ntccncggga tcacancana gcaactttcc aatanagaag 420

gtgtgaaatn caggg 435

<210> 3774
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G8

<400> 3774

ctangggccc ggaattccgg ntcgacccac gcgtccgggc gcagcagagc caacgtccaa 60

tctcaaaccg tcacannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnggt gtattcttac ctttgacaaa annnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggcgcg 240

actattccct tgctcaagcc gttaagtttg ttgctaagaa cgagactgtg atcgtctgtg 300

ctgttagcta ccctttcttg ccttttctta acaactggtt gattagcatt tctagacaag 360

aaacatcaag aaaaagttct tgtgatcgct gaagactatg ctactttgta caaagtcaac 420

gaaaagtggc ctgggcatgc tgttctcant cctccggggt tggattctca atccgcaaaa 480

aaatttggg 489

<210> 3775
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G9

<400> 3775

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gacgcgtccg cccacgcgtc cgatagtcac catttttttt gtttgtttga cctcaaaaac 120

tcctacgttt ctaagctctt ctctttgctt cgattcccaa aacgactatt tccaaaaggg 180

tttaaagaag ttatgaacac taatccagtg actaatgggt ttgttaaacc tgttcctact 240

gaagaagaac aagcaaagat tgaggaagtg aggaagctat taggtccatt accggagaag 300

ctttcgagtt tttgttccga tgatgcagtt ttaaggtatc taagggcaag gaattggcat 360

gtcaagaaag ctactanaga tgcntaaaga aacttttgaa atggagagtt caatacaaac 420

ctgaaggaga tttgttgggg aaggaagtan ctggttgaaa ccagagacag ggaagatata 480

tagnatcgag tttgtgtcna taaaaccttg ggccg 515

<210> 3776
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H10

<400> 3776

agacccacgc gtccnaaata agacaanaaa ataaanacaa ngaananaaa ggagaatgaa 60

ccctcacctg cctcttaaga ggcaagagtn nggcaagaag aagaactcac ggttcaacta 120

acactcacaa caacagaaag gaggatcgtg gtggaacaaa atcatggcan acaagacgga 180

tataatttca tcatcttccg ataaagcttc tccaccacca ccatctggct ttcagaaact 240

acttatcctc aangaagtaa ngaaccagtg cttctcttgg gatcanctgg tnanngnatc 300

ttgttgcatc tttagagtcc cctgangagc ttcgcnagca ttgaatccca aaggctataa 360

gcccaaaagt tgtttccatt gggtccttac cattacggtg aaaaagcacc tccaaatgat 420

tcaacagcac aangcctcgg cntctaacag cttttcccna gacgaagg 468

<210> 3777
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H3

<400> 3777

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aaacctttca ggacaacaaa tttggttgtg tttgctccag aaaatggttt gggggaccat 120

caaggggctg attttgtagc tcatggggat gcgttgatag tggatcctgg atgtctctct 180

aaactccacg ttgagctcaa gaaaatcgtt gatgctttac ctagaaagct aattgtcttt 240

gttacacatc accatcgtga tcacattgat ggtctttctg ctatacaaga gagcantcct 300

gatgctattc tagtggcaca tgctaaaact anggatcgca ttggtggttg gctggtaaac 360

tataccccaa gtttctggnn ggataaaaca tctatgttaa cgggtcaaaa nactgancgg 420

ttcatttttg ctnccgggga acacancaga atgg 454

<210> 3778
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F3

<400> 3778

acgcgtccgg gatagagaag taattgatgt tgatgatgag cttggagatg ttgaaatgat 60

atctgatgat acaagtaggg agggtgtcga aaacgtggct atggaggtgg acgaggtgga 120

agagaaggcg gagatgggaa atggattgtt ttctgaggtt gccagtctga aaaatgggag 180

cttgagggtg ggtgaatgtt ctaaagctaa tagtagttca ctcgttgtga atcgccctgt 240

gactgatgtc acaagttttg aagcatacag aaaggttctt gagagtgctg tgaaccggac 300

ttctaaactg aaagacagag gctttgttga ttttttaaa gagagaggtc gtgctttact 360

acgaagcttg tcttcctttt ggagacaaga tgaagaacca gtagaggttg tacaacgtga 420

ggcatttgta cctctttcta nagaggagga ac 452

<210> 3779
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E10

<400> 3779

actcaccgct ccctgaacct ggcttgctct ccacgagcca gcaacatcga gttcttattg 60

atcattcttt ggaggcaagt cacaatagca agcgttcaag aaaatcaagg agattgggcg 120

gttctgattt gaggattggt gtgagccttg gatcgtctca taggaatata naggctgagc 180

aggcggctgc tggttggcca gcttggcttt gttctgctgc ggctgaggct gtccatggtt 240

gggttcctct aaaggcagag gcgttccaga agttggagaa gattggacaa ggaacatata 300

gtagcgtgtt tcgagcacgt gaagtagaaa cgggaaagat ggtggcattg aagaanggta 360

aagtttgana atcttc 376

<210> 3780
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E12

<400> 3780

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acagcattcc attcatcctc atgaataatt ctacatcagt gaagaggctg gtttcatcta 120

aggcaatgaa atgtttctac ttcagcaaag acaaaactca ggatgatgaa gctaagacta 180

gaaagtttgg ttcagctacg atggctagag gaggatcagg gtctgagttt aattcagata 240

caagtactgc tacttccatt acttcttcct tgcacgtcct ctcagagaca cacagtanta 300

atctcaaagg tatttgtcct cgatgacctt aaaaccgcta ccangaactt cagccgcncc 360

ttgatgatcg gtgaangngg ctttgggtgg ngtcgttcgt tgcgtgaat 409

<210> 3781
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E7

<400> 3781

gtttcaggtt tatgaaaagg gagctgaggt cgtcaggatg tacaaaactc tactatgaac 60

tcaggggttc cgaaagggaa ttgatctcta ttttgaaaga catgatgagc aagcagtgac 120

ttgtgaagac ttctttgctg ctatgcgtga tgcaaataat gcagactttg ctaatttctt 180

gcaatggtac tctcaanctg gnacgcccgt tgtcaaagtg gtatcctctt acaatgctga 240

cgctcgtact ttctctttaa aattcagtca ggagatacct ccaactccag gccagccanc 300

aaagagaacc tacatttatt ccagtgngtt gttggccttt tcgactcaag tgggaaagac 360

attactcttt ccnctgttca tcatgatggt acaatncag 399

<210> 3782
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E9

<400> 3782

acgcgtccga gctaaaatac tgtgttcttt gtttcttcca tcgaaatcga aaaaagctaa 60

gatctttgcg ttttgaaacg atggcggaag aacataagca tgatgaatct gtgatcgctc 120

ctgagccagc tgttgaggtt gtggagagag aatcgttgat ggataagata tcggagaaga 180

tccatcacgg tggtgattct tcttcgtctt cttcatcttc tnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnccctct tctccttcgt cttctatgaa atcgaaagtt taccgcttgt 300

tcggacgaga gcagcctgtt cataaggttc tcggcggtgg aaagccggct gatatattca 360

tgtggaaaga acaagaagat gtcctgggtg ggtggtacnt ggggggg 407

<210> 3783
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F11

<400> 3783

aggagagaat cagctgttcc ctaaccagaa aatagtacag ctcacattcc tctttctggc 60

tctggtttct gtgccgtgga tgttgttgcc aaagccattc atcctgaaaa aacaacatga 120

agctagacat caaggactgt catatgcaca gcttgacgag acagatgaga gtcttcaagt 180

agaaacaaat gggggaggac atggacacga agagtttgaa ttcagcgaaa tctttgtgca 240

ccaactcatt cacaccattg agtttgtgct tggagctgtt tccaacactg cttcttatct 300

tcgtctctgg gctctcagtc tcgcccactc gggagttgtc gtcagtcttc tatgagaang 360

tcctcttatg gcttgggggt ttcaacaa 388

<210> 3784
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F2

<400> 3784

acgcgtccgc ccacgcgtcc gaaaacatta ctaattatta caagaaacan tcagaaacat 60

catggaggag caaagcaaga acaagatcag tgaagaagaa aaacaactcc atgggagacc 120

aaatcgacca aagggaggat taattaccat gcccttcatc ttcgcgaacg agatatgtga 180

aaaattagcg gtggtggggt ttcacgcaaa catgataagt tacttaacaa cacagcttca 240

ccttccctta accaaagcag ccaacactct cacaaacttc gccgggacat cgagtcttac 300

tcctctcctt ggtgccttta tcgccgactc tttcgccggc cgattttgga ncatcacttt 360

tgcttccatc atctancana tcgggatgga cgttgcttac naatancngg canataatac 420

caacgctaag gcnacccanc aatgtanagg agaaaaaggt ttgtgtacta n 471

<210> 3785
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F7

<400> 3785

acgcgtccgt ctatctctct cttaatcgat cgatgaagat caggtgcgac gtctgcgata 60

aagaagaagc gtcggtgttt tgcacggccg acgaagcatc tctctgcggc ggctgcgacc 120

accaagtcca ccacgctaac aaactcgcct ctaaacatct ccgtttctct ctcctttatc 180

cttcttcttc caacacctcc tctcctctct gcgacatctg tcaggataaa aaagctctgt 240

tgttctgtca acaagataga gctattttat gcaaagattg cgattcatcg atccacgctg 300

cgaacgaaca cacaaagaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnngtcc tgggatnatc antctctaat cctccncctc tcaag 465

<210> 3786
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F8

<400> 3786

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tttctactac ttggtgtttg gagtcatggc tgccntantg gcagcgttgg agcttancaa 120

gacgaacaag gatcggatca acacttcgtc ttccttcaat tcattcaaga acaattacct 180

ccncgttttc tctattatga tggctgggga ttggcttcag ggtccttatg tgtattacct 240

ttacagcact tanggttttg gaaaaggaga tattggtcag ctattcattg ctggttttgg 300

ttcgtcaatg ttgtttggaa ctattgttgg atctctggct ganaancagg gtccaaatag 360

gnnatgtgtt anatanngta gtagtntaca nactaagttn catcancaaa gcactctcca 420

cantanaacn gtttggatgg ttgggccgta tccntgggtg ggattt 466

<210> 3787
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F9

<400> 3787

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cgagacctcc gacgccggaa gttccggtga agaagacgaa gacgaaactc agaatcaagg 120

aatgagacca gaatctgagg atcgaggatc aacgagcgat gatagcgatc gtgaagttgt 180

gattgaggag agacgatttg gtaaatttgt aaatagtcag agttcttctt ctagcaaaga 240

ttcgcctctt tctgtaacgt tattgggatc cagatgttct tgattgtcct atttgttgcg 300

agccattgaa gattcctatc tttcangttt tgcttcctca ttgattacac aatccattga 360

aggcactccg attttagggt agaagttcc 389

<210> 3788
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G2

<400> 3788

agcttggncg taccggtccg gaattcacgg gtcgacccac gcgtccgctt atttgagatg 60

cttcgtgctt tctcaaggcg ttgcctcagt acatccacaa agtattgtgt tgttgacaat 120

ccttacactg gcgagatcca ttgtaaaatc ccctatttaa gttccgatca aatcaccaaa 180

gtggtggatc gtagcgctgc tgttcaaaag agctactatc atgaatcgac tttggatagt 240

cgcattgaac tttgtnaaaa atttatggat gagatgaaag cccggactga ttctatcgcc 300

actgacattt caaaacagat gggaaagccc ctaagccaag ccaagggaga gattaagggg 360

ttgatcgagc gagcgacagc gatgattgac ctgncaccaa aggcactcgc agacgaagtg 420

ctgcccanac aaggctttta ccgcaagctc gcccgcgagc tgttggtgtg ggtgttggtg 480

tantggcccc ttgngaaata gcctct 506

<210> 3789
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G3

<400> 3789

acgcgtccga acaaagattc ttgggaagct tccatggctt atgtttctgg aaatccaatc 60

ttgaatgatg aagaatatga taagctcaaa ctcaaactaa agattgatgg tagcgacatt 120

gtgagcgagg gtccaagatg cagtctccgt agtaaaaagg tgtatagtga tctcgctgta 180

gattatttca aaatgttatt gttgaatgtt ccagcaaccg ttgttgctct cggactcttt 240

ttcttcctgg acgacattac aggttttgag atcacataca tcatggagct tccagaacca 300

tacagtttca tattcacttg gttcgctgct gtgcctgtga ttgtatatct ggctttatca 360

atcaccaaat tgatcatcaa ggacttcttg atcttgaagg gtccttgtcc gaattgtgga 420

aacggnaaac acctcccttc tttgggaaca attctgtcaa atctccanc 469

<210> 3790
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G4

<400> 3790

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acattattta cgattataca ctttccaaca tggcggcctc tgtagataat cgccaatacg 120

ctcgtctcga gccaggtttg aacggcgtgg ttcgttctta caaacctccc gttccaggcc 180

ggtccgattc ccctaaggcg caccagaacc aaaccaccaa ccaaaccgtg ttcttgaaac 240

cagccaaggt tcatgacgat gacgaagacg tgtcgagcga agacgagaac gagacacaca 300

acagcaacgc cgtgtactac aagggagatg atanganant ccaacgccga ncttgaaccg 360

tccgttttgg accccgaggg acgaaataca cggctgatag ctggatcgag cgtaaccctt 420

ccatgggnac gtctcacaag gaaacatccc ttcaantccg agggggggcct c 471

<210> 3791
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G5

<400> 3791

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ccagttatgg ctatggccgg agaatcttcc ggcaaaaaaa ttggagactg tgacggtaaa 120

gtcgcgggga acagacagcg aaaggtgggt cttatttacg acgagacgat gtgcaacacg 180

acacacctga cggcgaggat caccctgagt gtcccgaccg catcagantt atctgggaga 240

agcttcagct cgccggagtt tctcaaagat gtgtggttct tggtagtagc anagcagaag 300

ataagcatct ccaattggtt cacanaaagg accatgtnaa tttagttaag gagtantagc 360

acaaggcaga aagattancg agagaaacna ggattgcntc acatgntgna gttngattta 420

tctgaanggg ggttcatcct gaangccgca aatctt 456

<210> 3792
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-G7

<400> 3792

acgcgtccga gaagttttac taatttaaat ccttgctacg ttctcttacc gttcttcctt 60

gtcctagcca cgaatgcaac acatacaaac aatttcctcc caaggccacg gactgggtat 120

tacggtagtg catgctggaa tgtagaatcg atagttcggt ccgtggttga gtctaactat 180

cttgctaatc cagccaatgc tccaggcatt ttgcgtatgc actttcacga ttgtttcgtt 240

caaggctgtg acgcctccgt tctcctagcc ggacctaact ctgagcgaac ggcgattcca 300

aatctatcgt tgagagggtt taatgtcatt gaagaagcta agactcagct tgagatcgct 360

tgtcctcgaa cagtctcttg tgctgatatc ctcgcactcg ctgcacgtga cttcgtccat 420

ttgggccggt ggaccatggt ggccagttcc attggggaga ctc 463

<210> 3793
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E1

<400> 3793

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tctcctctct cttgaaaaat ctataaccga tttctgcaat ggcgacttca gattcgaggt 180

cttctccttc atcatccgac accgaattcg ccgatccaaa tcctagctcc gatccagaga 240

cgaattcgga gcgtgttcaa agtcaattag agtcaatgaa tttatctcaa cctagcgaag 300

tctctgatgg tagccacacc gaatttagcg gtggcggcga tgataatgat gatgaggttg 360

catcggctaa cgggaacgaa ggcggagtta gcaatggagg tttattgcgt gaaagtgtgg 420

cgggaactag cggaggagaa gttttgttaa nggcggaaaa tcccggtggg aatgggaanc 480

aggtgaagaa ncaccgagtt ccgactat 508

<210> 3794
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A8

<400> 3794

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gctaccgacc actcacatca caagtcacaa cctccgcctt gagatgagan nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnntta accgtccact cgccgcangt ttcagttcct cttcatcagg 300

gtgctanctc tggattcgnc ctacgacgtt nttgttgttg gtgccggaca ngctggatgc 360

gaggcgggtt tagcctcggc tcgantagga ggctagtacn ctgcttctna nattaaacct 420

cgatngaata ggcttgggag nccgtgt 447

<210> 3795
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B1

<400> 3795

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acggaaggat tcttcagaat atctgatccg atatcaagaa gccccaagtt cgcttgaatt 120

ccgtctgagc aatggctttg gtcttgcaca cgtacaaggg aaacaaaagt gctgagaagg 180

cactcattgc agcagagtac gttggtgtgc aaatcgatgt gccctctgac tttcagatgg 240

gtgtcactaa caaaacccct gcgttcctca agatgaaccc tattggaaag gtcccgtact 300

tganactccc gaagggtcaa gtattttgaa aagcaaacgc aattgccccg ttaangttaa 360

cccgattgaa tggngacaac tcccttgaac ggattctccc tgntcganta tgcncaaatt 420

ganccaatgg gatgatttnn cctcnantgg nagatntaag caaananccct nanggggggt 480

ncggcccaag aaaggggc 498

<210> 3796
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B12

<400> 3796

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gaagcttgaa tcatggnctc gagaattgct aaagatgtga ctgaattgat tgggaacact 120

ccattggtgt atttgaacaa tgttgctgaa ggatgtgttg gtcgtgttgc tgctaagctt 180

gagatgatgg aaccgtgctc tancgtcaaa gacaggattg gttttangca tgatttctga 240

tgcagaaaan aagggtctta tcaaaccaag nagagagtgt gctgattgag ccaacaagtg 300

ggaacactgg gagttgggtt agcattcacg gcagctgcca aagggctaca ngcttaacta 360

ttacaantgc caagcgtcca aggagtactg tnnaggangg aatcattccg cttaacnctt 420

<210> 3797
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B9

<400> 3797

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aatgtaccaa aatttggaaa ctgggaagct gaggagaatg ttccttacac agcttacttt 120

gacaaagctc gtaagactcg agcacccggt agcaagatca tgaacccgaa tgacccggag 180

tataactctg actctcaatc acaagctcct cctcatcctc cttcttccag aaccaaacct 240

gagcaagttg acacggttag aagatcacgt gagcatatga gaagccgaga agagagcgag 300

ttgaaacagt ttggtgatgc tgggtggttc atcaaatgaa ggctgctanc aaagagncag 360

ggaagagctt ctcagancaa t 381

<210> 3798
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C1

<400> 3798

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taagaaatct gctgcttggt gggctcctct cttcggttta ccctccgatc cagattacct 120

caacatcgaa agctcatgct ccaccgtgaa tccggataaa accgatattt ccgggtcggg 180

tcaaaagttt cgtcgcggtt gttttacgga ggagaaagct aagcagttga ggaggaaaac 240

cgcagaagct tccacgttcc atgacgtaat gtatcactcc gccattgctt ctcgacttgc 300

gtctgatatc accggccgag tcgaggattg aaacggattc ggggtcagat ctggagacga 360

atcaattaat gaataattaa tcnttttttt ccnaattcaa gtgttcctgt aggatgcaaa 420

ncatcttcca accggtgctc ctttttcatt tgaanccgtt gggccttg 468

<210> 3799
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C10

<400> 3799

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gattctcttt tgttgcctgg gggatcacca gccagggaag ctgaatcctc taaagaaggt 120

tctaggcgtg aaaggctgtc tatgcttgct aaaagagctg ttcaggctgc acaagtattg 180

cagcataaga aaccgacttc aagtgttgat gctgatataa caggtggctc aacattaagc 240

tctcaggctt tgccaaaaca agaagtgtca acagcaactt ctaaaagtta cacattcaaa 300

gcaggtgaca gagttaaatt tgtaggtcct tcggcttctg caatttcttc tcttcaaggc 360

cancttangg gaacgggcaa ctggttccca anggaaaa 398

<210> 3800
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C11

<400> 3800

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ccagtgattc ccctaccttа cccaacaagt tggatggcaa aaatccaagt aatatcctaa 120

agaaggctcc tggagatacg agctgggcaa caaaagaact cctcgagttt gtgtcgttca 180

tgaaaaatgg cgatacatct gttctatctc agtttgacgt gcagggtctt ctgcttgact 240

atatcaagan aaaaaatctt agggatcctc ttcagaagtc tcaagttctt tgtgaccaga 300

tgcttgtgaa gttgtttgga aaacagcgag tggggtcact ttgaaatgct tangcttcta 360

gaagtctcan gtccttattc aaggagaaac ccgaaanggg gctaaag 407

<210> 3801
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C3

<400> 3801

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ttctatcaac caaacaaaat ctcgccgcta atttctctct ctatggcgct ttattgccgt 120

gatacactaa tcatcatctt ccaaaagctc accgtcgccg atctancgcg tgcgagctgc 180

gtctgtaagg tttggaattc tgtagccaca gaagacgatc ttgttgtatc tgctttcacg 240

gctccatggc ggatcaaaga acttgttgga agaccagctt ctgtttcgtt ttggagagat 300

aacggaatct ggaaatttgc tatttctcat cggatttgtc gtggtgatag tgtgactagc 360

ctcgccgtca aatacgccgt tcaggttatg ggacataaaa gcggctaaac aacatgatga 420

gcgancattg gtatttactc aaggagacag acngcttatc ccaataag 468

<210> 3802
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C4

<400> 3802

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cctccagttc acccncctcc tttcgctgtt gcaccccatt gaacctcaaa tcgctgcgtt 120

ctcatcgccg tcctaagatt tctcatattt gttgcgacgg aagctctatt tccggatctg 180

gcctcggcga tcccgatctc gagtttctcc aagcctcngt cntcgttgca gngacaagta 240

tgcattacaa aatgcggcga catggtttcc ggcaagattc aatgtggcaa acttcnaggc 300

ntttgcctcc cttttctatt atagctaatg aatccaaggt tggtgttctc cctatnggga 360

cttggatttc tccgtcaatt caagcanncc cacnaanttt tctcangatc cctggtgatg 420

gtgactaatt gcntccctgt tattngttgg ggga 454

<210> 3803
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C6

<400> 3803

acgcgtccgg tagctctctc acttcagctt tccaattaaa gggaacaaag ctttgatttt 60

tgccgcagtc agaagcatta ctttgcaaga acaagtgtgt aaacaaagat gaggagctcc 120

caaaacggcg gcgcaatggg tggacgagct gccggaaccg gcggaggagg accgtcggct 180

ccagttgaca aagaagttga ctacgctcag tacttctgta cttactcctt cctataccac 240

cagaaggata tgctctccga ccgtgtccgt atggatgctt acttcaacgc cgtcttccag 300

aacaaacatc actttgaggg caagactgtt ttagacgtgg gcaccgggga gtggaattct 360

tggaanttgg gtcangctca aagctggtgc caaggaaggt ttaagccgtt gaagctacta 420

aganggntgn tcatgctcgt gnccntgtca aagccaagaa accttgacca t 471

<210> 3804
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C8

<400> 3804

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cttgttttct gaatccaaag aagacgataa cgatgaatgg agctatagga ggtgaccttt 120

tgctcaattt tcctgacatg tcggtcctag agcgccaaag ggctcacctc aagtacctca 180

atcccanctt tgattctcct ctcgccggct tctttgccga ttcttcaatg attaccggcg 240

gcgagatgga cagctatctt tcgactgccg gtttgaatct tccgatgatg tacggtgaga 300

cgacggtgga aggtgattca agactctcan tttcnccgga aacgacgctt gggactggaa 360

atttcaagaa acggaagttt gatacagaga ctaaggattg taatgagaag aanaagaaga 420

tgannatgaa cagagatgac ctagtagaag aaggagaaga ag 462

<210> 3805
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D1

<400> 3805

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attgatcaga ggtttggtcg acgtggctat cggaggaaac caacgccgcg gcggagacga 120

tggtggtgat gatgaaggca actcgaggga cgagagatcc agatctactt gggctaatgt 180

ggtttccggt gaggaagagg atcagaatcg cgcgggagga tcgtcgcacg gccgtcgcca 240

naattcagag gagaatcaat gggagaagaa gggcgaaagg cttcccacaa ggcattcaca 300

atcacatgag gaggaccagg aagagaatac atatgcggct aaaagtgagc gagaaacaan 360

acttctcgga gaagccagca anaggaaaat gatggttggg aaactgtggg caaaaagaaa 420

cctgcaaggc aatcacataa ggtccagaan ggagcaatg 459

<210> 3806
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D12

<400> 3806

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ttggcaatct ctcttcagga gcaactgacc atgatattaa agagtttttc nctttcncng 120

gtgaanttga aancatcgat atccaaagta acgagcatag tgcttatgtc acatttaaag 180

aaactcaagg agcaganact gctgtgctct tatctggagc gattattgcc gntcaatcag 240

tcatcattga gttggctccc aactacagtc caccagcagc ccctcatgct gaaacacaga 300

gcagcggtgc agaatctgtt gtccagangg cagaagatgt tgtgagcagc atgttaagca 360

nagggtttca ttcttgggna a 381

<210> 3807
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A6

<400> 3807

gtaccggtcc ggaattcccg ggtcgaccca cgcgtccgtg gagcttaaac tagccaccgc 60

cgagaaacaa gtgcttgacg agttggtgaa gctattgcag agtcgagatt tgcgtggcga 120

aaatggaaac tggaaggaat ttttacatgt ttacgacaaa aatgctgatt caccaagtga 180

tccttcgagg cgttctcatg aagatttggt tcagtttctg acaactttta agaagaaaga 240

agatttgcaa cttctgaaat gtcacgccan tcatcntctg attganaatt tgaaccaaga 300

ntcccaagat gaagacactc ctgagcagat gctaagttag attgacagtt gagcatccga 360

nttacncgtt agactattct ttcaaggcca tactcagagg actgggtttg tatcccgatg 420

ttggaatgan natganaaag ggtgaatgng aatcaactaa catggganct gttgantgtg 480

acaagggttc cgttgttgaa g 501

<210> 3808
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D9

<400> 3808

cgatgccatt ttccgcatca atctcatcgc cttcttcttc tgtcgcgctt cttcgatcgc 60

ctctctcttt cttcatcttc actcccaaaa ccctaatctt caccagaacc aggatctctg 120

gtttcccttа tcttgcttcc cggcgatccc gcgatttcat caacgggagg gatgatttcg 180

ctgacgatac gaggagctgg aaccggaaga tcaaaccgga gtatgggttc nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntg gatctgttac 300

ttagatttgt anaaaatgtt ttcagaaaga tttcnaagag agcaaggaaa gctgtccgat 360

taattttgcc cggttcgatn tcg 383

<210> 3809
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C6

<400> 3809

ctaatgagat tgcaacacaa aacaacaatc aaagttttgg aacagaacgt cagataaaga 60

taccagcata catggtgagt aggaactcta atgatggtta tggttggaga aaatacggtc 120

agaaacaagt gaagaagagc gaaaacccta ggagttactt caagtgtacg tatcctgatt 180

gtgtttccaa gaagattgtt gagacggctt ctgatggaca natcactgag atcatttata 240

aaggtggtca taatcatcct aagcctgagt tcaccaagag accatctcaa tcttcattac 300

catcatcggt taatggggag gcgcttgttt aatcctgctt ctgttgttan tgaaccctca 360

atgatcaagt cagagaactc tn 382

<210> 3810
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C8

<400> 3810

catttgaagc gcggtctttt gaagcatcta aagcatccat tgatatgaag gtatccacct 60

ccgcaatggc ttcaagcatc agccccgcta ttggtaaaat tgaacacatg gacgcaggct 120

ctcctgcaag gccaacccca attcctaatg gaattgaggc aatgtcaaga actatggaaa 180

agccaagaaa cttggactct gttgataagt ctaaaccttt agagctcaca gaaattgttg 240

atccgactca gtgccgacaa gtgacaatgc cagatagcaa ggactctgtt agcaaggttg 300

ctcggcttct ttacacaaat tctggcgttg gtgttttggc tcctggatna aatggtgttc 360

aaagactatg gaagtggatn cgcaatgagc aaaatccanc tgggaaagna actgcctagt 420

g 421

<210> 3811
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-D3

<400> 3811

aaaaanaana gatccaaatt acanccatgc cttcggagtt aacaccagga agaacgatcg 60

gaactaaana actcaatcgc cgagttccac acataccaac tcgatccagg aagctgttca 120

tcactccacg cgcaacgaat ccacgcgcct ccggaactcg tctggtcaat cgtacgacga 180

ttcgacaaac cacaaacata caaacacttc atcaaatcct gctccgtcga acaaaacttc 240

gagatgcgcg tcggatgcac gcgcgacgtg atcgtcatca gtggattacc ggcgaacaca 300

tcaacggaaa gactcgatat actcgacgaa cgaacgggag aagttaccgg gattcaagta 360

atcatcggag gcgancatan ggtggacnna attannaaat ccgttacgaa cggtgcatcn 420

ggttcgagaa aa 432

<210> 3812
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-D6

<400> 3812

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aggacgttgt tctcgctacc ttaaaggttg tgaagaccga gatggacgat caggttatga 120

ggcttatcta gttagtcaca acctcctcaa cgctcatgca gaagctgttg aagttttccg 180

ccaaaaggtt aaaggtggga aaattggaat cgcacatagt ccggcttggt tcgaaccaca 240

tgatcttaaa gattcaaatg acgttccaac tgttanccgt gtacttgact ttatgttggg 300

atggcatcta nacccaacta cttttggcga ttatccacan natcatgaaa gaccttcttg 360

gncacagatt gcccaaattc acttcttcac naagcaanac aantgaaacg ttcgacccga 420

ntt 423

<210> 3813
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F5

<400> 3813

atcctcttct tccatctcca ctgcttccta attccccgga attcttcaca acccataaag 60

ggaagagaga gttattcact ggtatgagtt cgtcgtttca ttgagattat acacaaaaca 120

agattataac ttttttgctg ggttttggag actatggctg gtggtaacga agtcaacctt 180

aacgaatgca agagaattgt cccactcaac acatgggtcc tcatttccaa tttcaagctt 240

gcttacaaag tcctccgtcg ccctgacggt tctttcaacc gcgacctcgc cgagttcctt 300

gaccgtaaag ttcccgccaa ctctttcccc ctcgacggcg ttttctcctt cgaccacgtc 360

gactcaacaa ctaancttct caccangaat ctaacaaacc tgcgtctctc cttcatcang 420

<210> 3814
<211> 417

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F7

<400> 3814

atggggaatt acaagttcag aatttcagag atgctcccaa atgcatggtt ccacaagctc 60

aaagacgtga ctaaacactc taaacccaaa aacaaagctt cttcttcttc ctcaaacact 120

tgtagcaaga agaaaccttc ctcagattct cttcctcaac actcttattt ctccaacagc 180

ttantagcna acaatcctcc tcaccataac tcaccangaa antctcttca cacaaaanag 240

atgagtanna ganagacact ttacaagcca tcccttaaan ctttgactcc tccntcgtct 300

tcttgtatcn gcaaggtttc aanaangagc aagatcaacc gatnanngat tcgtcttaan 360

agcttgttcc cgggcnattt gaaacctccc cctgagtcgt ttgtgtagaa gtttcna 417

<210> 3815
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F8

<400> 3815

gcattgcaaa agttccctct cctggggctt ctttttctca taaccattgt cgtctcttcg 60

acaatagccg tcgatgatcc tgtgtgccca acgacgtcca aactaagccg agcaagtttc 120

cctaatgggt ttgtgtttgg cacagctact gctgcgtttc aggttgaagg tgcaattaat 180

gaaacttgtc gtggacctgc tctatgggat atcttctgta agagaaatcc agagagatgt 240

agtggccaca acgccgatgt ggccgttgat ttcttccatc cgttataagg aagatattca 300

actaatgaag aatcnaaaca cagacgcatt cagactctca atcgcatggt caagaatatt 360

tcctcatggn gagaaaagga gaanggantt nagtcaagct ggnngtgaaa ttctaccang 420

acctgaat 428

<210> 3816
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-G8

<400> 3816

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ggttatcgtg tcacaggaga gaagctacag aagttgatgg agaaatcgca gcgatagaca 120

atgtaaagat atacaaatat agagagatac gtcaggccac tgatgatttc agtgctgaaa 180

ataaaattgg agaaggaggg tttggttctg tgtacaaggg ctgtcttaaa gatggaaaac 240

tcgcggctat caaagtcctc tcggctgagt caagacaagg tgtaaaagaa ttcttgactg 300

agatcaatgt gatatcagaa atacagcatg agaatttggg ttaagttgta tggatgctgc 360

gtggagggga atcataggat tcttgttaca atttccttga gaacaataag tccntgataa 420

gacgccttcc tagctggggg ggcta 445

<210> 3817
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H2

<400> 3817

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cggcaactgt ggctcggtcg actttagatc ggtctcttct tgcaatgact acaataaaca 120

aaaaggtttc gacacgangg agcttgaaga gctctaatct tgttgtgccc ttgacggatt 180

cgcactctgc tgttgtttct tctcagccaa gaaaccgtgg aggtagagta atgtcttggt 240

tattccctaa gttaaagaag anacannaga gtaattcgat ctttanttca cctaagtata 300

actgagaagt cagaggaagt ttctgaggtg ttgaangatt ctggttctgg tgttgagaag 360

ttgaagagga gaattgatgn aagcaaaaca gaagtaggga tgctgcgtta acacaaagtc 420

tcaaanatga aatcctcatt gggagagtta aagtgacnaa gcttcagtac cttgggnaaa 480

gttactgtg 489

<210> 3818
<211> 420

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H5

<400> 3818

ggacacagct tttacttcta taactgagcg aagcaggtga aaaaatggcg aatcggaagt 60

tagagaagat ggcatcgatt gatgttcatc ttcgtcaact ggttcctggc aaagttagtg 120

aagacgacaa gcttgttgag tatgatgctt tgcttcnaga tcggtttctc gatatcctcc 180

aggatttgca cggtgaagat ctccgtgaaa ctgttcaaga gcttnatgag cattctgcag 240

aatacgaagg gaagcatgaa cctaagaagc tagangagct agggagtgtg ctaacgagtt 300

tagatccagg agattccatt gttancgcta aagctttctc tcanatgcgc taaccttagc 360

caatttggct gancgaantg cannnttgct tatccnccgt agcgatcaag aagctgaagn 420

<210> 3819
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H7

<400> 3819

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aaggcctcct cacttaaaca atatttacct agcaactcag aggccggaac agcttttgag 120

aagaactcag ttaatggagc gctgggctag atgggagatc agcaattttg aatacttaat 180

gcagcttaac acgttggctg gccgtactta caatgacatt actcantatc ctgttttccc 240

gtggattatt tctgacaaca gttcagaaag tctggacctt tcaagatcca tctancttca 300

ggagatcttt ccaagccana ntggtgcatt gaanccanga gcggctcann gnantttcaa 360

ggagccggta ttccannctt ccgaagatcc agttattccc aaaanttcc 409

<210> 3820
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-H8

<400> 3820

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actttagtgg atcaatctct tttttcttct ttgcagggga tattacagat gtagtagctc 180

aaaaggatgt ccggcgagga agcaggtgga gagaagccgt gtggaccctt ctaagcttat 240

gattacttac gcctgcgacc acaatcaccc tttcccttcc tcctccgcta acaccaaatc 300

ccaccaccgc tcctccgtcc gtcctcaaaa ncgcaagaga aagaggaaga atacnaagag 360

gaggaanaag aactaaccgt caccgccgca gaggaaccac cggcngggac ttgattcaan 420

gccacgt 427

<210> 3821
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A1

<400> 3821

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnggg aattttgatc ctttggnccc 120

cattgctcgc ttgaattacg aatcagatat cgccgatcgt cgtagatctg cgttgatact 180

gtccggctga gtaaacaggg tgaacaaaaa ccaaaaacag agaggggttt taaaaatcct 240

gaagaaaatc gcatgaattt gtttggaagc ctgatttttt catcttcgat ttcgagccac 300

ttcacgactt gtcntctcat ctttantccn tcatttctct ccccagntnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncn tttggatcaa 420

atgganaaag gaaatcattg gnggtccaag g 451

<210> 3822
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-C4

<400> 3822

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agattccttc tctttcccac atacctccaa acccaccaat ctaccgttga ctctctcctc 180

ggctcgttct gtggcacgcg acatttctca tgcggattcg aagaaagagc ttcttaagga 240

tccggatgcg ttgtggaagc gatacctcga ttggttttat cagcanaaag agcttgggtt 300

gtatctggga tnttactcgg gtcggattta ccgatgagtt tgtggctnan atggagccaa 360

ggtttcaagc tgcgtttaag gctatggang atcntgaaaa agggtctata gccaaaccct 420

gatg 424

<210> 3823
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A5

<400> 3823

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ccgctcttcc attcaaatct cacattccct cttcacaaca acagcttcgt attcgctcat 120

cttcttcgct ttctgatctt ggaaatcgca ggcattgttc gtctactcga ggatttcaat 180

tttggtcatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnaccgg cggttcgtat ttccgacggg aatctaatca 300

tcaaaaaccg gacgattcta accggtgtac cagataatgt catcacgacg tcagcatcgg 360

aagctggacc ggtagaagga gtcttcgtcg gagctgtatt taacaaggaa gagagtanan 420

acatcgtacc gatcggtacg cttcgcaatt cncggtttan gtcntgtntc cgggtttaag 480

ctcctggtgg atggccnag 499

<210> 3824
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-G10

<400> 3824

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tcaatggaga aatacgagaa gctcgaaaag gtcggtgaag gaacctangg aaaagtctac 120

aaagcaatgg agaaaaccac cggaaaactc gtcgctctga agaaaactan gctcgaaatg 180

gacgaanaag gtataccacc aacggctctc cgtgagatct ctcttctcca aatgctttct 240

caatcaatct acatcgttca gtctcctctg cgtcgaanat gttattcaat cgagnagatt 300

cgactgtttc ncantctccc aaatccaatc tcganctcgt ttttgagtan ctcgacacng 360

atntcaagaa atttatagat tncca 385

<210> 3825
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-G2

<400> 3825

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tcgggtgctg cgcttggtat ggaagggcag cttacggttt ataatcataa cggaggcccg 120

tgttaccggt gtctttttcc cactcctcca cctacctcag cgtgccaaag atgttctgat 180

agtggagttc ttggagtagt gccaggtgtt attggttgtc tacaancgct agagacaatt 240

aaactcgcaa gcctggtggg agaaccactc tctgaacgga tgcttctttt tgatgcttta 300

tcagcaagga tgcgcattgt caagatcaga ggcaggtcat cacagtgcan cgtgtgtgga 360

nacaattcat ctttcaataa gcanacnttt aaagattttg actaagaaga cttcactcaa 420

tttccgttat ttgcgggcca ttg 443

<210> 3826
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-G4

<400> 3826

gtacanatca taaattcccg ggcccatcgt ccgantctac ttctttttcc catcaccata 60

tgaaaaggca gagacnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnaggt tacaatgatg tttaatgaga tgggaatgtg tggaaacatg gatttcttct 180

cttctggatc acttggtgaa gttgatttct gtcctgttcc acaagctgag cctgattcca 240

ttgttgaaga tgactatact gatgatgaga ttgatgttga tgaattggag aggaggatgt 300

gggagagaca aaatgcggnt taaacgtctc aaggagcagg ataaaggtat nnaacgtgtt 360

gatgctgnta aacaggangc agtctcaaga gcanagctac gagggaacgn naatgtccan 420

gagctcaagg aatnggatct tgaagttag 449

<210> 3827
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H1

<400> 3827

tgctttcacc aacccactcg acggagtctc caacgccttc ctcctcattc tccactctca 60

caccaccaac ttctgattcc agatctcaac gatgcaaagc tccgccgtan tctccctcnc 120

tccgtcgctt cctctcctaa aaccacgtcg gctctctctc cgccaccatc ccataaccac 180

cgccgcttct tcaagcgatc taaacgtttc tccaaatgtt gtctctattc cttctttatc 240

tcgtcgatct tggngtctcg cttcgtctga ttcgnntctc cgtgcttggt ccggtgttcc 300

ttctccgatn tctcantcct tanganncna atcgtttnan gaancgccgn tantgcagtt 360

cctgaaagtg ctgangaagg tgataanagt gggtaaattg angaagggtt ttgggaacgt 420

ggngt 425

<210> 3828
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H10

<400> 3828

acgcgtgtan canaagtgcc aagttccctg gagtgccata cacattcttc tcgcagagac 60

aaggctgcaa agtttctctg taccaagatg ctcatattcc agacaacttt gtccctaaga 120

attcctctcg ctggagggaa gaactatnag cctcaaagat gttgggagga tatttttgat 180

gctnttagca atgcanaaca cttgatcnac attactggtt ggtctgttta cgccnagatt 240

gctttagtga gggactcgag gaggcctaag cctggaggtg atgtgaccat tggtgagcta 300

ctcangaana acgctactgg aangtgtcan ggttcttntn cntgtttggg atgacagnac 360

ttctgttgag gtgctgaana aaggatnngg ctcatgggct actcatgnat ga 412

<210> 3829
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H3

<400> 3829

caactcangt agtcagcggg ggaataaata aagtcaaaga tggttctaat gggacatgct 60

cgaagaaaag cacaccaggt ggtctgatat atcctaatca gatcagcatg tctgctcacg 120

cgagtgcaaa taaggtcggc agacctggga agaaaagcaa agtttttatg gaagctgctg 180

ctaatggatt tgttgagaac cctctgagat ctgtttcagt atcaaagaca gcgaatacag 240

atgccaaaat ggatcaggat tacaaacttc atatccaaag ttcaactaga cgttggtctg 300

ctgcntcagt attggataca cggaagccct taattcaaaa ggccagaaca ngatatcaag 360

canagattgg ngatgatgag attggcttta gaggcaggca gcggctgcag aggatgcagc 420

acccccntgg atgaa 435

<210> 3830
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H4

<400> 3830

acgtttgccn ggcccggtcc aaaattaacg ggtcgacgcn cgcgtccggt tttcggcata 60

cttttcatgg agattaaccg tggtggccat cccaacactt gttcttcttc taatcccagg 120

gttgatctat ggcaaatacc ttgttcactt atcaaagaaa tcttttaaag aatacaccaa 180

agcaaactcc atcgtggaac aggctctaag ctccatcaag acaattcttt cattcacagc 240

cgaaactcaa ataatcaaga aatactcgga agtcttggaa agacacaaaa agcttgggtt 300

aaagcaaggt cttgccaaag gtttagccgt gggaagctca anggatttca ttcaccattt 360

gggcttttct tgcttggtac ggaagcagat tggtgatgca caaacaagaa accgggtgga 420

cgcatttatg cagctgggat cnccttcgtc ntgggtggaa tctctctaag gacggnactg 480

actgaaataa gga 493

<210> 3831
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H9

<400> 3831

tatctctctc ttaatcgatc gatgaagatc aggtgcgacg tctgcgataa agaagaagcg 60

tcggtgtttt gcacggccga cgaagcatct ctctgcggcg gctgcgacca ccaagtccac 120

cacgctaana aactcgcctc taaanatctc cgtttcnctc tcctttatcc ttcttcttcn 180

aanacctcct ctcctctctg cgacatctgt caggataaaa aagctctgtt gttctgtcaa 240

caaggataga gctattttat gcaaagattg cgattcatcg atncacgctg cgaacganca 300

cacaaagaaa cacgatnngt ttcttcntan aggggttaag ctctcnngca acatcgtctg 360

tttacaaacc tacttcggaa atcnt 385

<210> 3832
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-A2

<400> 3832

gaaaagtacc caaatatatt ttcccagagt tcagtttttg ggaggtttcc atattttctg 60

ccgagcttag ttatatccgt ctatgctact gcggttctca tcgcttgctg gtggcttcct 120

gaaactcttc atacacgttg tagaattgca caagggagac ttaatccaac agagctaaac 180

gatgatgaaa gtagaggagg aggacttgat gaacagaaaa taattaataa gccaagtctc 240

ttgaggaatc gtccattgat ggctatcatc attgtttatt gtgtttttttc cctccaagag 300

atagcataca atgagatatt ctcactccgg gctgttaatg accgaaacta tggnngattg 360

agcttctcan cccaagaaat tnggggggaaa ttt 393

<210> 3833
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-B5

<400> 3833

ttttgaagta actatagtaa gattgatcag caagcaaaat atggctcaaa aggttgaagc 60

aaaaggaggg aaaggaggca accaatggga cgatggatcc gatcatgacg ccgtgaccaa 120

gattcaggtt gcagtaggcg gaatgggaat tcaatacatt cagttcgatt acgtcaagaa 180

cggacaaacc gaacaaactc ctcttcgtgg tatcaaaggc agtaccattc caactgatcc 240

gtttgtgatt aaccatcctg aggagcatct agtttctatt gaaatttggt ataaacctga 300

tggtcttatt caagggctta ggttcatatc caacaaaaag acttctcgtt tcaatggnta 360

cnattgtggg acnaacannn nnttccccaa nttttnngnc acncgnaant tcatgggctt 420

tccaggg 427

<210> 3834
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-C5

<400> 3834

gaggacacat tcattgctga cttagccgtt ggcttgtcca ctggacaaat caaaaccggt 60

gctccttgca gatccgagcg tcttgccaag tacaaccagc ttttgcgtat tgaggaggag 120

ttgggatcag aggcaattta cgctggagtc aacttccgca aacctgtgga accctactaa 180

atggagcttt tagaagcaaa gtggtcttct ttgtgacgag gagaanatga cctgagtttg 240

atcatttgct ttaattaaat aaaacgttct gtttttgttt cttctttgtt tggtttctta 300

nngtcttttg ttgaaccctt tttgggaaaa gttactcatt tttgtaaagg gaaacatgan 360

aatgcncngg cnttggtcga gggnncgntg ccccccctaag gtcaccccaa gtt 413

<210> 3835
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-C8

<400> 3835

acgcgtccgg tcaactccaa gaacaaaaag cacctctgct ctgttttgag atccaaccac 60

agttcaaact aatcaaaagt cccaatttct aacttcagtc taggcttttt ctctccatgg 120

atccttgatt ctgagatcaa ccaatcgaaa gaaaccaaaa tgggcttcaa cgttgttgtg 180

ttcttgagtt gtctgcttct acttcctcct gttacttttg gtagcaacat ggaacgaacc 240

accttggtta tagacggctc acgtcgaatc gctgagaccg atgagaactt tatctgcgca 300

acgcttgatt ggtggccacc tgaaaaatgc aactatgatc aatgtccttg gggttacgca 360

tctctcaaca atttggaact tan 383

<210> 3836
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-D1

<400> 3836

tgttacgcct gccagttacc ggtccaagaa tcccgggntc gaccaacgcc gtccgcaccg 60

ccatctaaac aacactcctt caactgaagc cgcggcgaaa gaaggggaa agcgaaatct 120

attaagatta ggggtttata acgattatag ggagggacga aaatcaagna agacgagcta 180

gaaggaagct gcgatttttc tggaagataa acaatggcac aagattcaga gaagagattc 240

caccaaatca tggataaact ctttacccca tcgaaatctc agcttccttc ttcctccacc 300

agttcttctg tagagcaaca atcaagaggc aagaagcgtc aaaatccttc atctgcgtta 360

gcattggttg agccaaaaga ttgtattaac taccattgat aggtcctcan ncntttgaag 420

ggttcccgct ggaaaanncc ccntcngggc tttttnaagg ccttgggaan nangggnatt 480

nnttctnngg agggtttgct actttca 507

<210> 3837
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-D7

<400> 3837

cttcttcttc atcttcttct atatattggt gtttcatttg ttctgcttta aaagtacaca 60

aagattcatc ttttttcggt cctctgattg ggcaaaagac tagctcggtc gtgttttgaa 120

caagagatac atgttttgaa aaattcctcg caaaagaaga gaaagaaaga ctcaaacttt 180

tgtttgaatt tgataccatt ttttatatat ataccaaaag tccaagactg gtttcatttt 240

tgggtttggt ctgaaacctc tcttcgtgtt gtttgttcat ggtatgtctt aattagggta 300

aaaaaatact tgattgtttt ctctcaatca tcangcataa gagtacgcaa taaaccggnt 360

aaatcc 366

<210> 3838
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-E3

<400> 3838

tgttacgcct gccagttacc ggtncaagaa ttcccgggac gacccacgcg tccggctctg 60

tgtantttgc ttctttaggg agaaagaaag cacaaggggc aaaatcggaa agattatcat 120

ggccgacggt agtactagtt cttcggagtc cactaccgcc tgcgctggaa gcggcacaag 180

aagagagatt atgctgttcg gagtcagggt tgtgcttgac ccgatgagaa agtgcgtgag 240

tttgaacaat ctgtctgact atgaacagac ggcggagact ccaaagatcg acggcgaaga 300

tagagatgaa caagatatga acaaaacccc ggccggttac gcctcggcgg atgaagctct 360

tcccatgtct tcttctaacg gnaaaatcga naggaaacca ngagtttcat gggagngaan 420

nnagaacaca aaacngntnn ctnccctggg gnnncaaaaa ttccgtnaag gggaaattgg 480

<210> 3839
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F8

<400> 3839

acgcntccgc ccacgcgtcc gcccacgcgt ccggttcagg gaggaggctc gagaacagtg 60

ccccatatct gaaagctgaa gctaagaatc tggacgttcg tgtttaaacc gacgacgtat 120

ttgaaattgg ctttgaagga aaggtgaaat taatggcgga atcgtcgtcg ccgtcgccta 180

ctgaagagat cgttcggttg attaagcgtt taagcgctta cgttgctttc aaaatgtcaa 240

gccttttctc cactacatcg attcgaaatc tggattcaag atcaattggt gcgattgcgg 300

ggcttgcgat tgcngtgata tntacgtgga ngggcgataa gaacgcccgg agaagcaacg 360

tntnnagaag gcagnccaag cgtatgattc acantgctga aacgtctant gctgctgntg 420

cttgcctctc 430

<210> 3840
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A12

<400> 3840

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atattctcca catttgccga ggccaatagg ggctttgggt ggggttgggg tggacactcc 120

aacaattcaa gtggttcagg ttcaaactcg aggtccggat ggggttgggg ttggggtcaa 180

ggctccaact attcaagtgg ttcagcttca accccannnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccaacaa tacacacanc 300

tcaaggtctg ngcggctcgg gttggggcat ggggccctaa caacaattac aagctcggga 360

tttngcggct cgggttcagg ctgggggata ttgn 394

<210> 3841
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A3

<400> 3841

aaaaccaact ctggagaatg gcgaatctac cttcttctct ctccatgggc acacctttcg 60

gtggtcctag cacctccgca caaaatccta ccggagctcc ggccaacaaa gatcgcaatt 120

tggcctctgc tgaacagttg gtactcgatc tcagcaatcc tgaactcaga gaaaatgctc 180

ttctcgagct ttccaagaaa agagaattgt ttcaggatct ggcgcctttg ttgtggaact 240

cttttggtac cattgctgcc ttgttacagg aagattgtat caatctactc tgttcttgca 300

cctccaaatc tgactcctgc tcagtccaac cgtgtttgca actcgctcgc tcttcttcag 360

tggcgtagca tctcattctg acacgagaat gtnattctca aggctcataa tccngttg 418

<210> 3842
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A8

<400> 3842

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taaggctata tgcttgccct gagctaaaga cattacctgg agaaatatgt gagcttcctg 120

ggcttaagta tctcgacatc tcacaatgtg tcagcctgag ttgtcttcca gaggaaatag 180

gaaagctaaa gaagcttgag aagatcgaca tgagagaatg ttgcttctcg gatagaccga 240

gctctgctgt ttcactgaag tctctgcgcc atgtaatctg cgataccgac gttgcattta 300

tgtgggaaga agttgagaag gctgttccag ggttaaagat cgaaagctgc tgagaaatgc 360

ttcagcctaa actgggcttg ncgaattana gtgtaaactc antgtttann agtctggtan 420

agttaaatgg c 431

<210> 3843
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A9

<400> 3843

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cctcttgatc atcgtcttct tctaccaaaa ttgttgcgcg acaatggaga aatacaacag 120

tttatcagat tttctcaagg agttctacat ccctacgtac gtcctctcgg cggaaacaga 180

agaggaggag gaggaggaga gtcgtcctac acctgcganc cccgtccttg tcttcatcaa 240

ctccaaaagc ggtgggtcag ttgggtgggc gaactcattc tcacctaccg atctcttctc 300

aatcacaatc aggtctttga tcncgaccan gganactcca ggataaagtg ctccgcagga 360

atctan 366

<210> 3844
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B3

<400> 3844

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atttcgatgc ttggatctga gctcctaacc attctgtgga ttgagaaata gattgggata 120

tgagatccat actcgagatg tgtttttgct caaaaattag cttgttcctg caattccata 180

ggttccacaa gatccaaatg ggaagttgtc cttgtccaat tccgattggt ggaagggtaa 240

cgaggagctt tgagacttcc aaaccctgtt tcatacttgt gatccgggaa gcttgaagcg 300

tggttttgaa aggagaaaga tcccaagacc ttagaagcaa atgggcagag gaaaagcang 360

atggagaatt gattcagcct cgtcgcagtg aggacagaga gcaagcggat ttataccacg 420

cagcctcag 429

<210> 3845
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B6

<400> 3845

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gaaactctat agttggtctt cctggtgtag atggtctttc aacagaacag aggaagaggc 120

ttactatagc agttgaattg gtagctaatc catcaataat cttcatggac gagccaacat 180

ctggtcttga tgcaagagct gctgccattg ttatgcgtac tgttaggaat actgttgata 240

caggaagaac tgttgtttgt acaattcacc aacctagcat cgacattttc gaatccttcg 300

atgagttgct gttgatgaaa cgaggaggac aagttatata tgctggaaca ctaggacatc 360

actcacaaaa actcgttgaa tactttgagg ctattgaang gggttccaaa gatcaaggac 420

ggataca 427

<210> 3846
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B9

<400> 3846

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catgcattca cttccggtga atctcgtcct caccgtactt acggtgttcc taacatcacc 120

ggcgcaagtt atcggatacc gtccatatcc accaaaaacc aanggctccg atcaaatctt 180

cgacgcttca aaaaaattcg aaggctcatc gaatctcgtc cgcctccgtt accacatggg 240

tccagtctta accaacaaca tcaccgttca cccaatctgg tacggcacgt ggcaaaaatc 300

ccagaagaaa atcanccgtg agttcattaa ctcaatctca gccgttggat ctaaacaccc 360

ttcagtcncc gggttgggtg gaaaaccgta cnaggtttac 400

<210> 3847
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C5

<400> 3847

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tcgatcgtta catcgagcgc aaagctttcg acaatacaaa agaaggtgtt aaagggctca 120

tcgatgctaa aatcaccgag atccctcgaa ttttccacgt ccctcaagat accttaccag 180

acaagaaacg ctctgtttca gacctagaga tccctaccat cgactttgca agcgtcaacg 240

tggacacacc ctcacgtgaa gccatcgtgg agaaagtcan atatgcggtg gagaattggg 300

gattcttcca ggtgattaat catggngttc ctttaaangt tcttgaagag attaaagatg 360

gggttcngta ggtttcacga ggaagaagat nctgaggtca aaganatcat actantcgct 420

tgatttcacc aa 432

<210> 3848
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C8

<400> 3848

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gtcttgcgtt cacaaagttg tctcactctc aatggactga ttacttcctc tctgttccca 120

tcgatgattc ggagttagac gctattacaa gagagattga cataatcaag cctgaagtta 180

ggaagctcct atcttccaaa ggtgatgatg agacatcaaa gaggaaagtg cttttgatcc 240

aatcgcttct tagccttggc ctcgcatttc attttgaana tgaagntcaa agatanatta 300

gaagatgctt ttcgaangat agatgatnta actggtgatg aanatgactt gtcganaanc 360

tgcatcatgt tccgcttttc aggaanatac gggcacagnt ttacaatcaa ggtgtantt 419

<210> 3849
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C9

<400> 3849

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atcattggag gtggtgtagc cggcggttac gcggcgagag agtttagtaa tcagggcctg 120

aagcctggtg aactcgcaat catttccaag gaaccagtgc ctccttttga ncgtcctgaa 180

ctanccaagg tatatattga cctcgaagtc aatccgaccc ttgcaaatat ctatgtttgt 240

gctggaactg gagaagcgan gcagtaccct aactggtaca aagagaaagg gattgatcna 300

attgtgggca cagagatagt caaagcagat cttgcttcan acacacttgt taantgatga 360

ctggcanaat ttacaaagta ccaancttt 389

<210> 3850
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F1

<400> 3850

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tcaactgggg aagaagaaag gtgtaacctt tatataacca tggattccgg tgacgcgaca 120

tctttgcttt tgacgaaaat tcgaagcttg gagccagatt atgctcctaa gattattggg 180

tatttgcttt tacatgattt tggtgataga gacttgatgc atctggctcg tggacctgaa 240

tcgattttgc agtcgactat ttcgaaagtg aagagtctct tggggatttt ctccaacaac 300

tcgccttctt ctactccgac gtctccttct ccgttgaatc ctatctgtcg tcctcctctt 360

aacggaagan gaagctctca ctccaatggg tttatggatt tccgtagaaa ctctccgtcn 420

tctccttctt ctacctctc 439

<210> 3851
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F10

<400> 3851

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agaatgccat atgaatgacg aagatgggaa ttcgtatgaa ctctctttgg ttagctgtaa 120

atgcattgga gcttatgtga gaaacaaaaa gaaccagaac cagatatgct ggctttggca 180

gaaagtcagt tcggataatg ataggggctt ccaacgcttc ttggacaatg tccagtataa 240

gtctagtggt atcttacgct atgagcgtgt ctttggagaa gggtttgtta gcacaggggg 300

actcgagaca acaaaggaat tcgtggatat gctggatctg aaacctggcc aaaaagttct 360

agacnttggg tgcggaatag g 381

<210> 3852
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F4

<400> 3852

attttgcccn ggcccggtcc aaaataaacg ggtcnacncn cgcgtccggg aagaatggct 60

acatgtcctc ctttcgattt ctcgaccaaa tattacgatg gtgacggcgg atgccagagg 120

cagagcagct tcttcggagg cacgacggtg ctcgatcaag gcgttggcta cgccgtgatt 180

cttggttttg gtgctttctt tgccgtcttc acatcttttt tggtatggtt agaaaaacga 240

tatgtgggag ctcgtcatac atcggaatgg ttcaatacag cgggaagaaa cgttaagaca 300

ggacttattg caagtgtcat tgtatcacag tggacatggg ctgcgaccat actgcaaagt 360

tcaaacgtag catggcagta tggggttagt ggaccgtttt ggtacgccan gtggagccac 420

catacaggtg ctgttgtttg gtgtgattgc gantgagata aaaagaaaag gctcctaatg 480

ctcacac 487

<210> 3853
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F6

<400> 3853

acntcgcccg ggaccgtaca agtcannaaa ttcccgggtc cgacccacgc gtccgngacc 60

gcttccttct ttctctgtca catacgaatc ggggaaattt ggatcccgat cgtgatcttt 120

agtttggtga atttgagctg gaattggagc ttaaaggatc ggtttttga ctgatctaat 180

tgttttgagg atcggtcttt cataaagttg ttgtctttga agcttttttg actggtgagg 240

acgaaaaagt tgtgattttg ggaattaggg ttgttttgtt tcgaattcgc catggatacg 300

agcangagag ctgtggaatc gtattggagg tcgcggatga tagatgcggt tacgtctgat 360

gaggacaaag ttgcgcctgt gtacaaattg ggaagagatc tgtgacctcn ttcgncttcn 420

cangtcagca tcgtcaagga attttctgaa ntcatntttg aaacgtcttg ataanaaaaa 480

gcccc 485

<210> 3854
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F7

<400> 3854

cttttacccg nccggtaccg gtccanaaat tcccgggtcg acccacgcgt ccgngcttat 60

gctctaaaag cgattgctca gttcatccaa cctgcacttg aggctgtatt cgacgatact 120

cctaaagagt ttgattcttt tgaagatgtt cttaagatct atgaagaagg aatcgatcta 180

ccaaaccaag ctttgattga tagtatcgtt aagaatatac cgcttgagat gttaaaggag 240

atattcagaa cagatggcca gaaattcctt aagtttccag tgcctcangt catcaaagag 300

gacaaaactg catggagaac agatgaggaa tttgctanga gaaatgttgg ctggactaaa 360

ccctgttgtt attcaacttc ttaangagtt tcctccaaag agtangcttg acagtgaatc 420

atacggtaac cagaacagta caatcactaa gaagccacat nggagnanaa tttgggatgg 480

actcact 487

<210> 3855
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H7

<400> 3855

atattaanca ctttttcttt tagaaaaaaa aacanatatg gccgttgant cacctcntca 60

atctcggntg gtttcagcga cgacttctga gaaagatgtg aaagctctca agttcattga 120

agaaatgant cggaaccctg actcggttca agagaaggtt cttggataga tactgactcg 180

taactctaac accgaatatc tgaaacggtt cgatcttgat ggtgtcgttg atcggnaaac 240

gttcangagc aaagttccgg tggntacgta cgaagatttg aagccggaga ttcaacgtat 300

atccaacggg tgattgttct ccgatcttgt cttctcaccc catcaccgag tttctcacaa 360

gctcaggaac atctgctggg tganaagaaa ctaatgccaa caattgaaga aaacttatt 419

<210> 3856
<211> 184
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F1

<400> 3856

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nnnnnnnnnn nnnnnnnnnn nncaagaata ttttagatgc aaattctttt tccatagatg 120

tttttgtgtt ttcttcagtc aaatatatgg agaaatttca tactaaaaaa aaaaaaaaaa 180

aagg 184

<210> 3857
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F3

<400> 3857

ncatctggag ctattgtctt acttcatgca tgtgcacaca atcccactgg agttgaccca 60

acctctgaac agtgggaaca gattcgacag ctgatgagat ctaaaagctt attacccttt 120

tttgatagtg catatcaggg ttttgctagt ggtancccttg acacagatgc acaatctgtc 180

cgtacatttg ttgctgatgg cggtgaatgc ttgatagctc aaagttacgc caaaaatatg 240

ggactttatg gggancgtgt tggtgccctt ancattgtct gcaagtcaag cagatgtggc 300

tagtaaggtt gagaaccaag tgaagcntgt tgtgcggccc atgtattcga gccccccctat 360

tcatggaggc atcaattgtt gccaacattc taaaaaacca gttgntatg 409

<210> 3858
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F4

<400> 3858

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atcctccgc cggagcttga caacgactca ctggcgtcat cgccgagatc ggagtacgat 120

agtcagccac gcgtacggtt catgtgtact tttggaggaa ggatcttgcc acgtccgccg 180

gataatcagc tctgttacgt cggcggcgat aatcgcatgg tcgctgttca tcgtcacact 240

actttcgcct ctctccttag taaacttgct aaactctctg gtaaaagcaa cataagcgtg 300

aagtaccagc taccaaacga agatcttgac gcgttgattt ccgtatcaac ggacgaagat 360

gtagagaaca tgatggacga atacgaacgc gtcgcacaag aatccaaaac caagcggnct 420

c 421

<210> 3859
<211> 134
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F5

<400> 3859

caaattcncg ggtcgaccca cgcgtccnac caagttgtgt tgctacttgg taataagagt 60

aagctttaaa aagagtatgt tcactgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nngg 134

<210> 3860
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-070-Q1-E1-F6

<400> 3860

ccacaaaaag gctggtgcta tgaatgcact ggtgagagtt tcagcagttc ttaccaatgg 60

acctttcatc ttgaatcttg attgtgatca ttacataaat aacagcaaag ccttaagaga 120

agcaatgtgc ttcctgatgg acccaaacct cgggaagcaa gtttgttatg ttcagttccc 180

acaaagattt gatggtatcg ataagaacga tagatatgct aatcgtaata ccgtgttctt 240

tgatattaac ttgagaggtt tagatgggat tcaaggacct gtatatgtcg gaactggatg 300

tgttttcaac agaacagcat tatacggtta tgaacctcca ataaaagtaa aacacaagaa 360

gccaagtctt ttatctaagc tctgtggtgg atcaagaaag aagaattcca aagctaag 418

<210> 3861
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F7

<400> 3861

acgcgtccgc nttttttctc tgctccaggg ggaaattaaa aaagtggaac cttttcatct 60

cctgnagcga tcaatttctt tttcatcata tcgctgactc tcgtcttcgt cgtctttgat 120

cgtatcgagg aattgggttt agttcgattc gatcatcagc tatctcaatt tttctgggga 180

ttgttctaaa ggtttctagt gacttgttta aagtggttgg tantggataa tgccttctct 240

catctcacag naatggnatg agangactag tgggntcttt tcttcatcag gaacgaanct 300

tatggaagca gggcagactg ctgggtagtt ttgtcnggga agttgctaag gatgcgaaag 360

tgaatgttgc aaatgttgca caaagattgg gtcgntgttt aaa 403

<210> 3862
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F8

<400> 3862

gagattacaa gggaaagaga caactccaat tcaaagctct gatttttcc accaatcccc 60

atttttccc ttttacaatt cttaagctag ttttatactt ttcttcttcc tttcatttgg 120

gttaagagaa gccatggata ccgagtttct ccgaacccta gatcgtcaga ttcttttggg 180

tgtcttcgtt gctttcgtcg ccgttggtgc tggtgctgct tattttctta catcctccaa 240

gaaacgcaga gtgtgtttgg atccagagaa tttcaaggag ttcaagcttg ttaagagaca 300

tcaagcttag tcacaatgtg gccaagttcg tttttgaact cccaacttct acttctgtgt 360

tgggtcttcc cattggacaa cacatcagtt gcaagggaaa ggatggtcaa nggagaaga 419

<210> 3863
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G10

<400> 3863

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cagagtaagc cggcctgatt ttccagaana cgagtttcgg cgagagttcc gtatgagcaa 120

atcgacgttt aacctaatat gcgaggagct agatacgacg gtgacgaaga aaaacacgat 180

gttaatagac gcgattccag ctccaaaacg cgtaggcgtt tgcgtttggc gtttggcgac 240

aggagctccg cttcgccacg tgtcggagcg tttcggtctg ggaatctcaa cttgccacaa 300

actagtcatc gaagtctgcc gcgcgatcta cgacgttctc atgcccaagt atctccnctg 360

gccgtcggat tcagagnata aactcaacga tagccaaant ccgaat 406

<210> 3864
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G2

<400> 3864

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tgtgataaaa ggntccacaa anaatgcgtc gagtgtccac ttgagantag ttatcctacc 120

cacaccaaac attctcccca actcntctaa tctaaatata natttgacca ttgcatctac 180

tgtagaaaaa gagcaaccta tatgatttaa ttttgtgctc tttgcgacag ttatatgcat 240

gtcctttgtg ctcaagtcaa aaataccctt ttttatagac caagccaaaa aagacatgac 300

catactctca ccctttttccc tagacaagct tccttaacct gcaatatttg tggtttgata 360

aanaaactcc atttcaccta cgtttgccct aaatgcgaat tcgtaaccca aaagtgattg 420

naatta 426

<210> 3865
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G7

<400> 3865

aaactcaaat cttcctctca gtttctccca ctcttcttcc tcaaccttcc gatttatcgg 60

attactctaa aatacccaaa atggaatctc atggaaaaac ccatcagaaa gagcacgata 120

atgatctctc tccgaaaccc ataacgttgt caaagtattc gaaacgggtc gagttaaaga 180

ctctgcttga tcggagcgac cgcggcgcag gattggctgg gaaaagggtt gtgattggtg 240

gttgggttaa gtctgctaga gcggttaaga aaaattctcc tcctcctcct ctgcctgtag 300

ttgccgcccc ttcgccgtcg agtggtgggg atnaagctca tacgacgggc aacattaagt 360

gcacgggaga tatccaatcn aaaatgaata atttcaagag attttccn 408

<210> 3866

<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G8

<400> 3866

gggctaaatc tctctctgtt gttaccttcc catgggatgg tcactaagaa ctctcataag 60

agcaatctgg gcatgacaaa gtccatgaat ttctttcaga acatcattaa acctttcaaa 120

cgcagctcca atcgaggtct tgaagatgat attgagcgaa ttgctgctat ggagcaaaaa 180

gttttcccat ttcaagtttt agtttccgct accaaagatt ttcacccgac ccataaactc 240

ggtgaaggtg gtttcggtcc cgtcttcaan ggaagattac ctgacgggag agacatagca 300

gtgaagaagc tatctcaggt ttcaangcaa ggcaaaaacg agtttgtgaa cgangctaag 360

ttgttggcta aagttcagca tcgcaatgtt gttaatcctt ggggttaatg tac 413

<210> 3867
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H10

<400> 3867

cgttacgctn ccggtgggcg gtaanggtca aaangtccng ggcccnncgg ancttaanga 60

gactgttgct canacaattc aggaagtttt gtgggacaat cctcccatac cagagaacca 120

agcaacatgc gctttatttt actctatttc ttcaactcag cctggcttag ctgggataaa 180

cctcggnaaa tttctgatca aacgagtgat tacgttggtg aaaaaagaca tgccacatgt 240

ttctacattt gcaacactta gccccattcc tggattcatg caatggntcc tctcgaagtt 300

atcatctcaa gtcaagattt gctgaagatg agcgtggtac acagagcaat tcgccttcat 360

ctacgtttag tgagaaagta ttactaccag aagaggaaca tgccctcatg actctatcag 420

atgaatcttc atccggtagc aacggtatgg aagttctgtt gaatttgct 469

<210> 3868
<211> 465
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H2

<400> 3868

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ctcacttcct ctctccggcg catccaacgc caactccttc gcctccgtca ccggtttnag 120

cttcctcaat gggaaaaaca agtgcgttag atangctttg tggccaagcg tacggagcaa 180

agaagtacgg aatgttagga atacaaatgc aaaaagctat gtttgttctt acactaactt 240

ctantcctct ctccatcatt tgggctaaca cagagcanct tctcgtcttc tttggacaaa 300

acaaatccat tgctacactc gctggctcct acgcaaaatt catgatccca agcatcttcg 360

cctacggtct tcttcaatgc tttaacaggt tcttgcaggc ccaaaacaat gtgtttcctg 420

tggttttctg ctccggagta acaacttctc canatgtcct ccttt 465

<210> 3869
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H4

<400> 3869

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caaagctaga tcattgaaaa aggcgagtga gtcacgggct tggaggttaa cagctttcca 120

gagactagac ttcacgtgtg acgatgtctt ggattctctc aaagaagaca acattatagg 180

caaaggagga gctggtattg tctataaagg cgtaatgcct aatggtgatc tagtcgcggt 240

taaaagactc gctgcaatgt ctcgtggatc ttcccatgat cacggcttca acgcagagat 300

tcaaacctta ggaaggataa gacacaagac acatagtgag gcttctcgga ttttgctcaa 360

accacnaaga cgaatctact tgtcnaagaa gtacat 396

<210> 3870
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E8

<400> 3870

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caacaacctg ttgggtaaat tcgagctttc tggtatccct ccagcaccaa gaggtgttcc 120

tcaaatcact gtctgttttg acattgatgc aaacggtatc ctcaacgtct cggctgagga 180

caagacaacg gggcagaaga acaagatcac aatcaccanc gacaagggaa gattgtcaaa 240

ggacgagatt gagaaaatgg ttcaagaggc agagaagtac aagtcggagg atgaggagca 300

caagaagaag gtggacgcca agaatgctct tgagaattac gcatacaaca tgaggaacac 360

aatccgtgat gagaagattg gcgagaagct tgctggagat gacaagaaga agattgaaga 420

ctcaattgaa gcaacca 437

<210> 3871
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H5

<400> 3871

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attaaaaagg attctttttg tgtgtattaa ttatcgctta aatcttaaat aattctccta 120

atcgtctctg cacgttggtg atggtgttta gttgtcaatt ctacatctcg aggaaatcca 180

gaaacagctc actgatctat cgaaacagtt ttttttcttt ttacagagtc aatagaacaa 240

gaaccagata acagagatag tgacaaacca tccgtgaccn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaagacat tgcttaaatc 360

ntcaaaactc cntttggctt taaatatgtc ccttccaaat natcct 406

<210> 3872
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H6

<400> 3872

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tcgatttanc tcttttattg gaaccatgta ngcttcttgg agttagtatt ggtgtgatct 120

gtaatcttgt ttttccgaac tggttgatta cgagtctctt cgctgtgttt cttgcgtggt 180

cnacgttgaa nacttttgga aatggacttt attattggng attggaatcg gagatggtga 240

agattanaga atcgaatana attgaagaag atgatgaaga agataagatt gagagtctaa 300

agttgcctcn cntggnggat tatcagagac caaagangtt tccatggatt angcttggag 360

ttttggtcat tanttggctt tcttacttcg cagtttatct tcctcgagga aacanntatg 420

gcaatggaat cataacgatc gaaccatgtn ggaacgccca ac 462

<210> 3873
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B10

<400> 3873

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tagagaagtc acattttcct tcttcttctt ccttcatcat ccccaaacac acacaaacta 120

aaaaaaaggc aaaaccctag atccaagatc agacctaatc taatcgaaac tcatagctga 180

aaaatgaaga gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct 240

tcatcatcat caatctctaa agataagatg atgatggtga aaaaagaaga agacggtgga 300

ggtaacatgg acgacgagct tctcgctgtt ttaggttaca aagttaggtc atcggagatg 360

gcggaggttg ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat 420

ggtttatctc atctcgcgac ggatactgtt caattatatc 460

<210> 3874
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B3

<400> 3874

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nnnnnnnnnn nnctttttt ttttgtttat ttgttctttc tccaaaactc ctttttttc 180

tcaccattat ctcatgaacg tgagtggagg ctctctgagt agagagagcc taccttgaa 240

aataacctag ggatttctcc aattttcaag ctttacccat tcaaaagaat cgtccttttt 300

tcctatttct gactttgagc tatgatgatg gtccattcga tgagcagaga tatgatgaac 360

agagagtcgc cggataaagg gttagattcc ggcaagtatg tgaggtacac gccggagcaa 420

gtggagtcnc anaattaacg atgccnagca antcctaaga agacacaact catactgaat 480

gtccgantcc ccccaacatc gagcctaagc agttaaantt gggttcaaaa acgcaanatg 540

tcgtganaaa gcanaggaaa agaaaccngc tccgtcctca aacagtga 588

<210> 3875
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B6

<400> 3875

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gtcctgttgg gtcctaatgc cacggcggcg gccaactaca tctgtggcca ggttaggcga 120

cgtcaacaac aaatttatcg acaccgcttt cgctatagac aacacttacc ttctcttctc 180

cgcctacctt gtcttctcta tgcagcttgg cttcgctatg ctctgtgccg gttccgtgag 240

agccaagaat actatgaaca tcatgcttac caacgtcctt gacgctgcag ccggtggtct 300

cttctattat ctgtttggct acgcctttgc ctttggatct ccgtccaatg gtttcatcgg 360

taaacactac tttggtctca aagacatccc cacggcctct gctgactatc aattccacaa 420

tggccttgat cctgcggtgg atacaagtgg gtcgattgct gaacggacac anttcgtggc 480

ttaactaatc cnagtcctcc ttcctaaacc ggggtttggt taacccgggt ccgtccnctc 540

aaatgggttt cngggtcaaa ttttaatngg atggggccaa accccgtt 588

<210> 3876
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D12

<400> 3876

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tccgttcatc ttccggtnta tctgccgcca aattagtcaa ccgaaacccc aggcttcctt 120

ctcggntcac ccgcgcgtca cgccgctcca tgtagctacc tcctcggccg cgtcgccgag 180

tatgcgacct cttcaccggc aagctctgct gcgccatcct ctgctcctgc taaggatgag 240

gggaaaaaga cctatgatta cggtggcaaa ggtgcgatgg ggcgtgtttg tcaggtcatc 300

ggtgccattg tcgatgtgag attcgaggat cagggaagga ttgcctccga tcatgacatc 360

tccttgaggt tcaaggatta tcccangaag gctggtgctt gaagggtgtc tcatcatttg 420

ggtcaaaatg tcgttaggac cattngctat ggat 454

<210> 3877
<211> 626
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D3

<400> 3877

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agccacacct gaagaaagaa accttagatt tggtgtcagg gaacatggta tgggagctat 120

ctgcaacggc attgcccttc acagccccgg ttttatccct tactgcgcaa ctttctttgt 180

gtttactgac tatatgagag ctgcaatgag aatctcggct ttgtctgaag ctggtgttat 240

atacgttatg acccatgact ccattggtct tggagaagat ggaccaaccc accaacccat 300

cgaacactta tccagtttcc gtgccatgcc caatattatg atgttccgtc cagctgatgg 360

gaacgaaaca gccggtgcat acaaaatcgc tgtcacaaaa cgtaagacac cttctgtctt 420

agccttatct atcgnagctg ctcactcaga catctattga gacgtcaaaa aggtggatac 480

accantttct gacaactcaa ccggttaaca aaacccgatg ntaattgttg atnnggaact 540

gggatttaga gcctnnaana tttgcctgct ccaagcctgc canaagaaaa ttttaagggg 600

aaacaaaggg gcaaaaaatt ttttan 626

<210> 3878
<211> 611
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D5

<400> 3878

tacaantcca tgaaattccc gggtcgaccc accgcntccg natcaaggta ccaattgatg 60

tatttgcagg aatcactgat gaagatgctg ctaaggttgt ggatggtctg gctcccaaag 120

ctgctgacag aaaagattcg attgaacaag tgaagaagct atacgaactc ttccgcaaga 180

ctgactgcac aatgttggaa atcaatcccc ttgcggagac atcaactaat caattggtag 240

ctgctgatgc caaattgaac ttcgatgata atgctgcgtt ccgacaaaaa gaggttttcg 300

ccatgcgtga tccaacacag gaggatccac gagaggtggc tgctgctaaa gttgacctga 360

actacatcgg tttagatgga gagattggtt gcatggtgaa tggtgctgga ttggccatgg 420

caaccatgga catcataatt cacgtggaca ccgcaanttc tgacttggtg gaaatgcttc 480

tgagcaccaa gtggtggaan cgtttaagat actgacatcc ggacgagtaa agtgaaaacc 540

aatccttggg gaacatattt ggtngggana aatgaaatgt naatgttaat tgccaattgg 600

aaaccctnaa c 611

<210> 3879
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D9

<400> 3879

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acggctgcaa cagttaacaa atacaaggac gagtacagaa actggttcag gagtcatcat 120

gcctcagaac tgcatagcac caaggcctga agaagatggt ggagtcatgg ttcaaggttt 180

gccagatatg tcagacacgc agagcaagtc tgtactagcc ttccctacga ttacttcaca 240

acctggtctc cagatgtcta tgtatcccat aactctcaag tttgaggagg ttgtgtacaa 300

ggttaagata gagcagacaa gtcagtgtat gggatcatgg aaaagcaaag agaagacgat 360

tttgaatggg gataacggga atggtttgtc cccggagagt ttctagccat gttaggtcca 420

tcaggcagtt ggc 433

<210> 3880
<211> 582
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E4

<400> 3880

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caacatgatg tacaagaact caacagagtt ctctgtgaaa agcttgagga caagatgaag 120

ggaactgttg tggagggaac aatacaaaag ctatttgaag gtcaccacat gaattacatt 180

gagtgcatta atgtagatta caaatctaca cggaaagagt cattttatga cctccagctt 240

gatgttaaag gctgcaaaga tgtatatgct tcttttgaca agtatgttga agttgaacgc 300

cttgaaggag acaacaaata ccatgcagaa ggacatgatt tgcaggatgc aaaaaaaggt 360

gttctattca tagactttcc accaagttct tcaacttcag ctcaagaggt ttgaatacga 420

tttntgagga ccatgggant atgtcggtat agttcctccc caactggatn tcgacagana 480

anatggaaat attatcccct gatgcanaca gnaagtgtcc gcaatctcca aaacctccan 540

antgtcctgg gtcnaaattg ggaggaattc cattggangg gc 582

<210> 3881
<211> 608
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E8

<400> 3881

gtacaatcan aaattcccgg gtcgacccac gcgtccgtct ctctctatct atcttcttca 60

tctttgtttc agcttctcct ttgaaactag attatctccg ttaatggcgc ctcagatcta 120

accttgggag ttatataata tatacttgtt caactcttct tcgaacgctg tccaacttct 180

tcctctggtt cgatcatcga gatctcgagg ttatttggcc gcaatgcaga agcgaatagc 240

cttgtcgttt ccagaagagg tactagagca tgtgttctcg tttattcagc tggataagga 300

taggaactca gtctctctgg tgtgcaagtc atggtacgag atcgaagcgg tggtgcagga 360

ggaaagtctt catcgggaac tgctacgccg tgagtccagc gacggtgatt aggaggttcc 420

cgaaagtgag atccgtgact aagaaaccac ttgcgactta attggtactg acggttgggg 480

aaggttacgt gtanccangg ntttnnggca atgtcctccg tcctaaaacn ttggcttgaa 540

anagaanaag gctgaanaag gattggtggt caaccgnacn aattgccttg gggcccaaaa 600

nccaaatt 608

<210> 3882
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E9

<400> 3882

actttgcccc gcccaggtac angtcaaaga attcccgggn cgacccacgc gtccnccaat 60

cccaaaattc cacttctgtc cacaaaacac aaagcgattc tcgatctttg atcgtcccac 120

caagatggcc gggaacgatt gggtaaacag ttacttaaga ggcgattctc gacgtcggtc 180

agggtcttga cgatgctcgc tcttctccat cacttcttct tagggagaga ggtcgattca 240

ctcccagccg ttactttgtt gaggaagtta tcactggtta cgatgaagac tgatcttcat 300

agattctggg ttaaggctgt tgctacgaag agtccacaag agaagaacac gaagttagag 360

aatatgtgtt gganggattt gggatcctgc tccgtcaaaa agaaacaagc atgagggaaa 420

aaagnaagca caagaggctg gctaagccca aggcttgaac ntttagaaaa 470

<210> 3883
<211> 612
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F1

<400> 3883

aactgtttac tttcccnggn tcggtccnaa aattaaaggg tcgacgcncg cgtccgaaag 60

ttgatccaca cttttgttaa agaaaaacat caagatgaga ttacattcgg cgacaaatca 120

agattaggga gaggggtat gactgcaaaa gtcaaagctg caagtcaatg cagcttatgc 180

tgggattcct gtcatcataa ccagtgggta ttcagctgag aacatagata aagtcctcag 240

aggactacgt gttggaacct tgtttcatca agatgctcgt ttatgggctc cgatcacaag 300

attctaatgc tcgtgacatg gcagttgctg cgagggaaag ttccagaaag cttcaggcct 360

tatcttcgga agacaggaaa aaaattctgc ttgatattgc cgatgccctt gaagcaaatg 420

ttactacaat caaaagctga gaatgagtta gatgtagctt cgccanagcg gttgaaatca 480

tggtgctccc taatttgaca cctggaaaga tttcaacctt gcaacntcan tttcgtaanc 540

caacctgata tggaagattc aaatcggncg ttttttttaaa gaaaaccana nggtggcaaa 600

atgggncctg tc 612

<210> 3884
<211> 606
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B1

<400> 3884

attcangggt cgacccacgc gtcccgcntc gccaacatgt ccttaaatta tctcttttta 60

atgaattgat cgataaagtt ctcaccttta tgcctcctcc tacttttttcc acttaatcat 120

cccacttcct tcttcagatg taagcaatgt tgtctagagt cctcctctga ttcagatttc 180

gttgctgaat cttttgtaaa actctgttct ttgtatgtcg agaagccaaa ttcagggaat 240

ttagggtttt acaaaaaaat aaaaaagagt ttctttttttt ggatgatgga atcgaattac 300

tcaggtgtgg tcaacggcta cgatgtgagt ttcttaccaa cttcgattcc ggatcttgga 360

ttcggtgttc cttcttctag tgattttgat cttcggatgg atcaatacta tcaccaacct 420

tcgagtgggt caataagtta cactttctca caantgatga nattgatccg aaaacaccct 480

tttgaaaaan ttaaacaagc tcccttaagg gaangaaaat cnccccctgaa naagcaattc 540

aaacctccaa gnaatncctt tgggnccctt cgaanaaaan ccnangggaa aatgtttcaa 600

ccaagt 606

<210> 3885
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F2

<400> 3885

acgcgtccgc ttgctccgac acgacaacaa atccagattt tgagcttang gaaacttgag 60

aaggagaaaa aaatgtcgaa catanacata naagggatct tgaaggagct acctaatgat 120

gggaggatcc caangacgaa gatagtttgc acattacgac cagcttctcn cactgtttcc 180

atgatcgaaa agcttttgaa agccggtant aatgtggntc ncttcaactt ctcacatngn 240

agccatgaat accatcaaga gacactcgac aacctccgct ctgctatgca taataccggc 300

attcncgctg ctgtcatgct tgatactnan gggcctgana ttcgtactgg tttcttgaaa 360

gatgggaacc ctatgaactg aangaagtc 389

<210> 3886
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F3

<400> 3886

tgacgcttta cttgacgttg tttactctgc cgttgaacgc tcangcggtg gatctctccc 60

agtggntgtt tccgagagcg gntggccttc taanggtggn aacgccgcga gtttcgataa 120

cgcgngagct ttttacacga atcttgcgtc acgtgtgaga ganaacagag gaacaccgaa 180

ganacctgga agaggagtgg caacgtattt gttcgccang tttgatgaga atcaaaagag 240

tcctgagatc nagaagaatt ttggcttgnt ttttccnaat acacaaccaa aatttccgat 300

cacattctct gccgcnacag acggtacngg ggttgaatna tcattttana ttctnagatt 360

tatgtgaata aatgggagat tatcccagnc aagggttc 398

<210> 3887
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-F5

<400> 3887

tcttcttcat ccaaaagaat ccaatctttt cctcaaaaga tagtttctgg atcgaacgac 60

aatggagatt ttctactact tggtgtttgg ggttttgggt ctcgtcgtcg cggcgttgga 120

gcttagcaag aacaacaagg atcgaatcaa cacttcttca gctttcaatt ctttcaagaa 180

caattatctc cttgtctatt cgctcatgat ggcgggtgat tggttgcagg gtccatatgt 240

gtactatctt tatagtactt atggatttgg taaaggggac attggacagc ttttcattgc 300

tggttttggt tcctctatgt tgtttggtac catcgttggg tctctagccg acaaacaggg 360

tcgtaagagg gcatgtgtta cctattgtat tacctatata ttgagct 407

<210> 3888
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F6

<400> 3888

aggtaccagt caagaattcc cgggncgacc cacgcgtccn aattgctgaa ggtgtggatt 60

tcattgctgt atcgtttgtc aagtcggctg aagtcattaa tcaccttaaa agttatcttg 120

ctgctcgttc ccgtggaggg gaaattggag tgattgcaaa gatcgagagt atcgattcac 180

tgaccaattt ggaagaaatt attctagcat cagatggggc catggttgca agaggagatc 240

tgggagctca gatacctctt gagcaagttc cagcagctca acagagaatc gtccaagtat 300

gcagagctct taacaaaccc gtcattgtcg cttcacagct attggagtcc atgattgagt 360

acccaactcc aaccaagagc agaagttgcc gacgtgtctg aagcagtaag acaaagatca 420

agatgcattg atgctctctg gagaatcagc ta 452

<210> 3889
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G1

<400> 3889

acgcgtccgc tgaaaactct tttctctcca cctctttctc tcttacccca aacacaaaat 60

ctcctcttta atggatatat cgcctctccg atctcattct tcctcgtttt tatctgccaa 120

acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnagctt tcggtttctt tgataattcc ctttgaattc 240

gtttttcttc ttctttcaat ttccgcaaat aatcagccgc cgataagata atcatgggga 300

ggaaatctca gcgtaagaac gcgacaatgt ttgatagtga tgatgataca agtagtgtaa 360

gctcttcctc cancatgcca tctgagagat tgttgaatcc tggtaaggat 410

<210> 3890
<211> 122
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G11

<400> 3890

acgcgtccga ttttgaagtt ttttcagtaa catgtaaaga atgcttgtta ctgatttgtg 60

gtggtgcaaa ataattttta tgaagatttt agtgnnnnnn nnnnnnnnnn nnnnnnnnnn 120

gg 122

<210> 3891
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G5

<400> 3891

gggcattcac caaatccact tgctcataca cgcgttcagt tccatcaaga ccagatacat 60

gtacttgttg tccatgccag ccagttagcc atatatgagg ctcctaaatt agagaacatg 120

aagcagtgga taccgaaaga gtcaagtggt tcagtcacag atgcagtata ttcatgtgat 180

agccagtcaa tctatgcagc ctttgatgat ggaagtgtga gtatcttgac ggcaacaaca 240

ttgcaactga agtgccgcat tggtcccaat tcatatttgc cttcagaccc gagctcgaga 300

gtatatccag ccacagttgc agcacatccg tctgaaccaa accagtttgc agttggacta 360

accgatggtg gggtccacgt gatcgaanca ncangtccag aagggaagtt g 411

<210> 3892
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G9

<400> 3892

ccttctctct gcgctttcac tggagaatac ctatgcaagt cccaattaca gagaagcact 60

ctcaaagtca ttactctttt tccaaggtca ncggtctggt cgcctcccta gtgaccaaca 120

actctcatgg aggtctagct ctggcctctc tgatggctca tctgctcacg tggacttgac 180

cggaggctac tatgatgctg gggacaatgt gaagttcaat ttcccgatgg cgttcaccac 240

aaccatgctt tcctggagct ctttggagta cggtaagaag atgggacccg agctccagaa 300

actcccgtgt ggccatccgt tgggccacgg gattatctac tgaaatgtgc cangggctac 360

accanggaag ctttacnttg gagtangaga tcctaatggt gaccacaagt gc 412

<210> 3893
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-H2

<400> 3893

ggttgnccgg caggtacaat ctngcgggnc gngcacgcgt ccgcttcncc ttcctgtctc 60

caccagctcc ctccttctca atcattagct tcttctcttc tcttctctca cagagagagt 120

aatcacaagc caagtgagaa aaagaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntggtct tatgatctca tcaaacggag 240

ctttaatcga acaacaacca tcagtcgttg tgaagaaacc accggcgaaa gatcgacata 300

gcaaagtcga tggaagaggg agaagaatcc gtatgccgat tatatgtgct gctcgtgttt 360

ttcagctaac gagagagctt ggtcataagt cagatggcca aacaattgaa tggttacttc 420

gtcaagcaga gccttctatt atagctgcaa caggaactgg 460

<210> 3894
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H6

<400> 3894

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ctcacgttac ttattggtaa ctatgtcgtc aatcttgaag cctcgcacca tgtctacaag 120

agacttaccc aaagcactaa caccaaatct ccttccgtaa accagcccta ccggaccggt 180

ttccatttcc aacccccaa aaattggatg aacgatccta atgggcctat gatatacaaa 240

ggaatatatc atcttttcta ccaatggaac ccgaaaggag ccgtgtgggg taacatcgtg 300

tgggctcatt ccacgtcaac agacttaatc aattgggatc cacatcctcc agctatcttc 360

ccatctgcac ccttcgatat caacgggatg ctggtccggt tcagctacta 410

<210> 3895
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H9

<400> 3895

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cacctccgga agtttacttt caatgatctt aagctatcta ctagaaattt cagacccgag 120

agtcttcttg gagaaggtgg ttttggttgt gtctttaaag gatggatcga agaaaacggt 180

actgctcctg ttaaacctgg tactggtctt acggttgcag tcaaaacctt aaatcctgat 240

ggacttcaag gtcacaaaga atggcttgct gagattaatt tccttggtaa ccttctccat 300

ccaaatctag ttaagcttgt tggttattgc attgaagatg atcaaaggtt gcttgtgtat 360

gagtttatgc ctaagaggaa gtctggagaa tcacctttc agaaggtcct t 411

<210> 3896
<211> 624
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A1

<400> 3896

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gtctcactcg ttttgcctta taatatttct ttcaacaaca acccaaatct acaaaaaatc 120

ccaataaaaa aaaacttcag tctgtttgac attttgtcga acacttggac ggcatcacaa 180

aaagctctaa actttctgac taccaatggc ggattcgtct tccgacaagg agaagaagga 240

aaataataag cagcccgtgt atcgtggagt ccgtatgagg agctggggaa aatgggtatc 300

ggagattcgc gaaccgagga agaaatcgag aatctggctc gggacttttc cgacggcgga 360

gatggctatg cgtgctcacg acgtggcggc tatgagtatc aaaggaactt cagccattct 420

caatttccct gagctctcta aacttcttcc ccgaccttcg ccanctctga ctcaaactgc 480

gggacaaact gctcccaatg gacttcgata cgaangggtt tccgttcnga tactgagaac 540

tancgaaacg acgacgtcna aataaaatgt cagagagtta ntgangaagt taacnaaacg 600

gtgtcgttcc caaccgtccg tcct 624

<210> 3897
<211> 605
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A2

<400> 3897

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gtanaacact caatgggcta gggtggcccc atttcgcctt accaacccca gggaaactcc 120

gaatacaggc cgttctcgtt tgtacatnac agacttttgg ggtgcctaag atccaaagtc 180

gatagggaaa cagcccagat cntacgctaa ggtccctaag caatcactta ctggaaangg 240

aagtgatcga gcgatgacaa ccaggaggtg ggcttggnag cagccatcct ttgaagaaag 300

cgtantanct cantggtcta gctccatggc accgaaaatg tatcanggct cangtgattc 360

accgaagcga cgaagacctt gaaagctgct ttttcaagtg tcagtancgg aacgttctgt 420

caatcgggga aagtttttgg tgacaagacc tggngatatc agantgtaag cgcatattac 480

ataatcctgt gaaaaaagat ncctgcantg gnaaggnttc cgcgttnatc aatcctacnc 540

aaaattgaat cgggtcccct aaaggaaccc ccgaaaaggg cttgccgttc ccaatggggt 600

tacac 605

<210> 3898
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-E9

<400> 3898

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aatgatgatg gagactagag atccagctat taagctttc ggtatgaaaa tccctttccc 120

gtcggttttt gaatcggcag ttacggtgga ggatgacgaa gaagatgact ggagcggcgg 180

agatgacaaa tcaccagaga aggtaactcc agagttatca gataagaaca acaacaactg 240

taacgacaac agttttaaca attcgaaacc cgaaaccttg gacaaagagg aagcgacatc 300

aactgatcag atagagagta gtgacacgcc tgaggataat cagcagacga cacctgatgg 360

taaaacccta aagaaaccga ctaagattct accgtgtccg agatgcaaaa gcatggagac 420

caagttctgt tattacaaca actacaacat taa 453

<210> 3899
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A3

<400> 3899

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ccctgaggga agtggtaaag tcaactggaa aggagttgct tattacaata gattgattga 120

ttacatggtt caaaaaggga ttacacctta tgctaatctg taccactacg atcttccatt 180

ggctttggaa aacaagtata aaggcttgct tggtagacaa gtagtgaaag attttgcgga 240

ttacgctgag ttttgttaca agacatttgg tgatagagtg aaaaattgga tgacgttcaa 300

cgagccgcgt gtggtaagct gctttaggtt atgataatgg tattttcgca ccgggtagat 360

gctcaaaagc atttggaaat ttgcactgaa ggaaactccg cgacagngcc tcatantacc 420

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aantttggna annttttaaa tttcctttgg gaaan 515

<210> 3900
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B5

<400> 3900

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gaaaaaccca tttctcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn ggtgtggatt tgaggcaagt ggtggctgga atactcacca ttaccatgtt 180

tgtgatgctt ggacaaatgc ttcatagaga ttactttgat gctgttcagg anaaagttca 240

nggagatgca catgatattg aattccatgg atcaaaagta gctgttgaan atggacttgt 300

tagagccttt gaggctggga ctaaagggcc ttggatggaa gatagtcatg aactcaaacc 360

ttgttggtca atttctcaat ctgatgaagc ggtatcgtca aaggggtacn ttacnattcg 420

ccttaacaaa tnggtccctg aactacaat 449

<210> 3901
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B9

<400> 3901

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntcgaggaga aaaaagaaaa 120

attggagaaa taatttaact ggttctcgga gaatctaggg ttctttttag ccacgccttg 180

ctgatctcct tcgtgaattc gattccgatt ctcacctggt cttttgtggc ctaaagctca 240

taagtttatg ctagtgcaag aagttatata ggaatgacat attagattta caatgatgga 300

agtggggttc tctcttattc agtggttgat caagttctgg tgctgacagt ccgtttatat 360

ttggatggct tgtaactgga tctgttggcc ttctggctgt tatctacaca tttcttaaat 420

ggcaagaaaa aaacttcttt aaattgggtt aaagct 456

<210> 3902
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C1

<400> 3902

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ctggggcttc tttttctcat aagcattgtc gtctcttcga caananccgt cnatgatccn 120

gtgtgcccaa cgacgtccaa actaagccga gcaagtttcc ctaatgggtt tgtgtttggc 180

acagctactg ctgcgtttca ggttgaangt gcaattaatg aaacttgtcg tggacctgct 240

ctangggata tcttctgtaa gagaaatcca nanagatgta gtggccacaa cgccnatgtg 300

gccgttgatt tcttccatcg ttataaggaa gatattcanc taatgaagaa tctanacaca 360

agacgcattc agactcccaa tccgcaaggt caagaatatt tccnca 406

<210> 3903
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C11

<400> 3903

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aaattttagc ttagaacaca gaagaagcat tttttcgnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnng gatagtggaa gcttcccatt tgtaggagct 240

ctgcattcaa aatcacgttc gtctcctctg ttatcagttt gccttgttct cgtgggagca 300

tgccttctca ttggttatgc ttacagtggt ccaggtatgt tcaaaagtat cagagaagtc 360

agcaagatta caggtgacta ttcttgcaca gcagaagttc aaagagccat tcctattctt 420

aagagtgcgt atgggagata gcatgcgcaa agt 453

<210> 3904
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-C12

<400> 3904

acgcgtccgg ttcagttcca tgccctagct ttgctccatc agatacgcca aaatgatcgc 60

ttggctgtta gcaaattggt tggtagcttg accaggggat ctgtccgctc tcccttggct 120

cagtgtcttt tgatacgtta caccagccag gttatccgtg acatggccaa ccacggtcaa 180

tctggagaac gtccgttcta tgaatttttg gagagttgcc tgcgccataa ggcagaaatg 240

gtgatccttg aggctgccag ggcaattact gagcttgatg gtgtgacaag ccgaagaact 300

gactccagca atcactgttc ttcagctctt tttgagttcc cccagaccag tgttgagatt 360

tgccgctgtc cggactctga acaaggttgc aatgactcat cctatggct 409

<210> 3905
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C3

<400> 3905

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cgcatcaatt cgtgattcaa ggatacagct tagcgaaagg gatgggtata gggaagcaca 180

tagcgagtga taatttctcc gtcggaggtt atcagtgggg gatcttcttc tacccggacg 240

gtaagaatcc ggaggataat tcgtcgtacg tctctgtttt tancgcattg gccantgaag 300

gaaccgaagt tagggcgctt ttcgagctan ctcttgttga ccaaagtgga aaggggaaac 360

ataaggttca taaccatttt gaacggtcac tccaaggggg gccctaaaaa ac 412

<210> 3906
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C7

<400> 3906

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngaa cgatatagta 120

cctgaaccct agcggaggaa aatcaaaaat tgtctaggag aaacaaacag agatatcttt 180

ctttcttttt atcagtgggg aaaaaaaatg cagaatccga gactgannnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ctctctttac 300

catcctggtg ttttggctcc tcctcagtta gagcctgttc caagtggaaa ccttcctcct 360

ggttttgatc ccaagtactt gccgtagcgt gtatgttgga aacatcca 408

<210> 3907
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D1

<400> 3907

taatggaggg agcgtgttgt cgctctctgc tccacacttc ccttactccg ccaccattct 60

ccgacgtcac tctccggtgg cttccatatc tttctccctt aagcaaccac caccgcaacc 120

accaagaacc tcctgagagt cctcctgacc tccgccgccc ggagaaatct attggnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntaa aacccctctt aagattaatc 240

cactcaaggg tttaaccaat cgctcttctg tgtctcctct tgttcaatca gaggtttcga 300

gtaaagtttc ttcctttggc tcctctctag catccaagct acgtttgtcc agcaagnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngttgaaga aaccaaccaa tttc 414

<210> 3908
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-D11

<400> 3908

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aaatggatgt gtgccaatgt atgctcagat caaagctgga gaactcattg agcaaccaat 120

ctggaaaact gcagagctca taaaacagag caaatccaat acgagtgatg aatatgtacg 180

ctcctttatc gacttccaag agctgcatca caaagatgga atcaatgccg gtacaggagt 240

gaccggattc acggactggc gatacttggg gcattccacg attgattttg gatggggagg 300

acctgtgacg gttttgccac tatcaaacaa gttgcttgga agcatggaac catgtttttt 360

cttgccatat tctactgatg ctgcagctgg aagcaagaaa gacagtgggt ttaagggttt 420

ggg 423

<210> 3909
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D12

<400> 3909

gtggacaagg ttcctccagg ttgcagaatg acaatcattt cagactcttg tcacagtggt 60

ggcctaatcg acgaagccaa ggagcagatt ggagagagca ctaagaaaga agccgaggac 120

gaagatgaat ctgaagaatc ttcttcaaga ttcgggttta ggaagttctt gcgcagcaaa 180

gtggaaggcg ccatcgagtc tcgagggttt cacattggag ggaacaagaa ggatgaagat 240

gaggcggaag aaatcgagac taaggagatt gagcttgaag acggagaaac gatccatgcc 300

aaagacaaat ctcttcctct gcagaccttg attgatattc tcaagcagca aacagggaat 360

gataatatcg aagttgggaa aatcangcca agccttttg atgcgtttgg 410

<210> 3910
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D6

<400> 3910

acatggaggg tatggccatg cccctgctca tggctttggc catggtggtc atggtaaatt 60

caagcacgga aagcatggag gcaaattcaa gcacggaaag catggaaagc acgggaaaca 120

tggcatgttt ggaggaggag gcaaattcaa gaagtggaag taatctcaaa aaccccacct 180

ttgatcctct cctccagtat agtctcatta cctgaccgat gtttctaata atccccccttc 240

aaacatattt cattttaact atgtcggttt agagattact ggttgaggaa ataattggag 300

agtgctanta taaaccttat ggtatctgca gcagaggttt ctttaatctc tcaatagtag 360

atgctttgaa acttatctat aatttgggaa tgtnatgaca gtttgtgt 408

<210> 3911
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D7

<400> 3911

tgatgagaag gagcttatgg gtaaacctct aatgaagcgt gttatgcaga cttggctccc 60

tgcaagtact gcactacttg agatgatgat ctttcatttg ccatctcccc acactgccca 120

gaggtaccgt gttgagaatc tgtatgaagg tcctcttgat gatcagtatg caaatgccat 180

caggaactgt gaccccaatg gacctctcat gctctacgta tccaagatga ttccagcctc 240

tgacaagggt agattctttg ccttcggtcg tgtctttgct ggtaaggttt ctactggtat 300

gaaggtcaga atcatgggtc ccaactatat ccctggtgag aagaaggatc tgtacactaa 360

gagtgttcag aggactgtca tttggatggg taaagaagca aagaaacaan t 411

<210> 3912
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-E12

<400> 3912

aaaagtcatt agttttaatc gcattacgct ttcggataac acgaaaggtt aaattataaa 60

atgaacgatt ttacgaatcc acatattcct ggatcaacgg gaacccttcg tttctttccc 120

acccgcgtgt tatcccgttt ctcaaatttc tcatctttcc gggaaaattc actttttttt 180

tttcctggga agattcgttg tgttgtgaat tttagtgggc accttcaaat tttcgatttt 240

ttttttttatt ttccttgtct cttacctgat ttggtgattt attattacat caaccactcg 300

attcgttaga tttccggatt tgaaaaagag tcaccaactt gtacggattc tcgttttggg 360

gatcgagtat tgctgatttg tgattttgtt gtttttgggt actt 404

<210> 3913
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-E2

<400> 3913

ggggcagttt ttcttattct cctgtcttgt ctaaagaaaa aagagagagg aagaaatgga 60

gacttttgag gaaagctctg atttggatgt tatacagaaa catctatttg aagacttgat 120

gatccctgat ggtttcattg aagattttgt ctttgatgat actgcttttg tctccggact 180

ctggtctcta gaacccttta acccagttcc gaaactggaa cctagttcac ctgttcttga 240

tccagattcc tatgtccaag agattctgca aatggannnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnntgagg ttgagactgt ctcaaaccgg aaaaaaacaa agaggtttga 360

agaaacgaga cattacagag gcgtgagaan gaa 393

<210> 3914
<211> 412
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-E4

<400> 3914

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ttgaggtcag aattgctagg atcttcaaca cctatggtcc aagaatgtgt atagatgatg 120

ggcgtgttgt tagtaacttc gttgcacagg cactaacgaa agagccattg actgtttacg 180

gtgatgggaa gcacacaagg agtttccaat ttgtttctga tctgggttga aggtttgatg 240

agactgatgg attctcgaaa caccgcttca accaagaatt ccgtggccct cctaggcgtc 300

aactcattac catcttccgg gttagtttcn cagttcttaa cactagagcc cgaagtttac 360

cttttaaacc ttatttttcct tctcctcttc actgttacag gtttancttc tc 412

<210> 3915
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B12

<400> 3915

taatttccgc cgncggtaan ggtcanaaat tcccgggncg acccacgcgt ccncggacgc 60

gtggggctgc acttgagaga ggcttgtggt ctacagcaac tataaatatt gaagttttga 120

gaaccttaaa tgtgattttc tccaattttc ctaagctccg tgcctcagaa gctgctactt 180

tctgcatccc tcatttggta ggggcgctca aatctggtgt tgaagacgtc cagggattag 240

tattggatat tctttacttg ctaagacact cctggacgaa tatgtctata gatgttgcaa 300

agtctcaagc catgattgca gctgaagcaa ttcccgtcct gcaaatgctg atgaaaacat 360

gccctcctag gtttcacgac aaggcagata gcttattgca ctgcttacca ggttgcttaa 420

cagtgaacgt catgcgtgcc aataacttaa agcagtctat ggcaac 466

<210> 3916
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-E1

<400> 3916

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn gttttgcgtc tgatttctat aaggctggtt ctgattggtc ttgtttagtg 180

gaagatgaag agactgtttc ttcttctgtg aagaagatga aacagtcgaa cttgtttcag 240

atttggggtt tacaagagaa ttctcctgat acaacgaaga agatgaaaca aactgatttg 300

tttcagagtt ggggtttaca aaagccttct cctttcactt cacctgcttc gaattcggcg 360

aagaagacga cgagtgctct tggaaaaang cgtaaaagac tcctcgttta acaatg 416

<210> 3917
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-E12

<400> 3917

gccgaccngc ccgtccaaag ggaaaccaca tatcactcca tctgatatac agagcctcat 60

agaagtaaat gtacttgttc aagatttcaa caaatggcta ntgcaaccan aggtagcagc 120

ggaccagtca cgctgtttgt tgaaatcttg aacaagtaca tttacttctt tgagaaangg 180

aatccacata tcactccatc tgatatacag agcctcatag aattgatcaa caatgagatg 240

caaagcgaca acggtaacac gacaatccac tcagatccct tctttacaag tacattgcgt 300

tacattaagt tcataaaaca gaaaggtggt ttgatgggtg agaaatatga ccctatcaag 360

ctgtgactta aatccgagac acaagcctca tcaaatcccg agggggaatc cnccggaatt 420

ttccaaagaa aatgtt 436

<210> 3918
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-E2

<400> 3918

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ccaaaggttc aagaaacatt tgctagaatc tcaggatatt gtgagcagac cgatattcac 120

tccccgcaag taacagtcag agaatctctg attttctctg ctttccttcg tcttcctaaa 180

gaagtcggca aagatgaaaa aatgatgttt gtggatcaag tgatggaatt ggtagagctg 240

gacagtctta gggactccat tgttggttta ccgggtgtca cggggctttc cacggagcag 300

agaaagagac tgacaatcgc ggtggagctt gtagccaacc cttccatcat ctttatggat 360

gagccaactt canggctaga cgctagaaca acggctattg tgatgaaggc ggtaaagga 419

<210> 3919
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-E4

<400> 3919

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tcttcccctc tcttctgttg aagaaagctt aaacctttct gggtttcttt taactatggc 120

gacaagggtt agtttcttct tanctctggt aatgacggtg gtgattcttg ctccttctgt 180

cgtctctgga gaaaatgggt tttccgatct taaaatccgt actcacttga aacgactcaa 240

caagccaagc tctcaaatcg attaaagagc ccagatggag atatgattga ctgtgttcca 300

atcactnacc aaccanncnt ttgctcatcc tctgctcatt aatcacactg tccagatgtg 360

gccaaagttt gaacccagan antgtacnta gtggagaagt aaagttcatc atgancca 418

<210> 3920
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-E7

<400> 3920

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gccttgccgt tgttcccttc tcaagctcct gatttcgtcg gtgagactgt gctcactaag 120

ttctgggaac tgattcatct cctattcgtc ggcattgctg ttgcttatgg tttgtttagc 180

cgtaggaatg ttgaatccgc tgttgattta aggatgactc gtgtagatga gtcttctttg 240

tcttatgtat ctagaatctt ccaggtttct tctgtttttg acgaagagtt tgatgataat 300

tcttgtgagt ttgttgatgt gaggagtgat gaagagtgtg agtgctcgag cttctgtggt 360

tgggaaatct gagtcntttg gttgttgaaa agcgggcaaa ttgggaagaa tcg 413

<210> 3921
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F12

<400> 3921

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tctaaaggct ttggatttgt caattttgag aattctgatg atgcagccag agctgttgac 120

gctctaaatg gaaagacctt tgacgacaag gagtggtttg ttgggaaggc ccaaaagaag 180

tccgagaggg aaactgaact caaacaaaag tttgagcaaa gtttgaagga ggctgcagac 240

aagtctcagg ggtcgaactt atatgttaag aacttggatg agagcgtcac agatgataag 300

ctcagagaac attttgctcc ctttggaact attacatcat gcaaggtgat gcgtgacccc 360

agtggagtga gtagaggatc tggatttgtc gcattttcaa ctcctgagga agcaactaga 420

gctattacag agatgaatgg gaaaatgatc gttacaaaac cnctatatg 469

<210> 3922
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F4

<400> 3922

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attttataac aatgggtgat tctactggtg agccggggag ctccatgcat ggagtcaccg 120

gtagagaaca aagctttgct ttctcggtgc aatcaccaat tgtgcatacc gacaagacgg 180

ccaagttcga ccttccggtg gacacagagc ataaggcaac ggttttcaag ctcttctcct 240

tcgccaaacc tcacatgaga acgttccatc tctcgtggat ctctttctcc acatgttttg 300

tctcgacttt cgcagctgca ccacttgtcc ctatcatccg ggagaatctc aacctcacca 360

aacaagacat tggaaacgcc ggagttgcct ctgtctctgg ggagtatctt ctctaggctc 420

gtgatgggag ccgtgtgtga tcttttgggg tccccgttta cngttgtgcc cttcctt 477

<210> 3923
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F5

<400> 3923

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ctaacaatgt ctgctactag gtcacagaga tcatccacga tctcgccggc tcgtcctcgt 120

agatcgccgg cgactattcc gatgaaacgt ccggaaactc cttcttcctc tcacttttct 180

gcttctccgg ttacttcttc tagtccatta ctacgttcta gtcctagtcc gtctacttcc 240

tccgccgccg cctctagtac ggctgttgct tccacgaaac tgaaggagaa tattacaagt 300

cacgattcgg tttcgtcctc tcagtccacg agaggtcaat aatggagatg agattgcgtg 360

gtatgcagat ggagactaan actattagga atgagtataa tccatctctt tgtt 414

<210> 3924
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-F6

<400> 3924

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atttttctcg acttgcaagt cggtacaatt ccatacggaa atcatgaaaa taagcgacgt 120

ggatgtctct gatattcatg gaggcatgga tcagaacaga agaactaaaa ccttttttcga 180

cttcatgaaa gcaaagaaag gtatcttgtt atgtactgat gttgctgctc gtggtctcga 240

tattccttcc gtggactgga ttatacagta tgatccacca gacaagccaa cggaatatat 300

ccatagggtt ggtcgaacag cccgtggaga aggagcaaag ggaaaggcat tacttgtctt 360

gattcctgaa gaacttcagt ttattccgct acctgaaggc tgccaaagta ctgtta 416

<210> 3925
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-F8

<400> 3925

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tttcgagatt cagacccaaa gaagaagcaa ttccacaaca agattgcttc tttctcacaa 120

gtttctccat tctcaagctt ccattatctc aatctccagg acaagaatcc tcaaacgggt 180

ctctcagaat ctctctgtag ctaaagctgc ttcagctcaa gctagtagta gtgttggtga 240

gagtgttgct caaacatcag aaaaagatgt gttgaaggct ctgtctcaga ttattgatcc 300

tgattttggg acagatattg tttcttgtgg ttttgtgaaa gatttgggga ttaatgaagc 360

tttgggtgag gtttcgttcc gtttggagct gacaacaccc gcatgtccag tcaaaa 416

<210> 3926
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F9

<400> 3926

ttgggtaaag tagacagaac aaaaattgct gaagtgtcag aagaaacaga cacaaggatt 60

gaagatgagg atcaggagaa agatgatgag atgactgatg ttgcggaaga tgtgaaaacg 120

catggagact cctcagtagc tgatattgaa gagggaaggg aaagtcaaga agagatgaca 180

gagacacang angacagtgt tatggctgat gaagagcctg aaggaagttg aggaagaaaa 240

taagagtgct ggaggaaaga agaaacgggg gagaaataca aagacagtca aagggacagg 300

aaagaagaaa gangaagatg tttgttttat gtgctttgat gggggtgatc ttgtcctttg 360

tgaccgcang ggaancacaa aancctntca acccttccgg ttttaattca ana 413

<210> 3927
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-G2

<400> 3927

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ctgaagcctc gggagttggt tttatggcgt tcagcagcga gtctgatcct gaagaaatcg 180

atgattcgga tttaccggtg tctgtagaga ggtgtttggg tcatttcaca aaacatgaga 240

tactgtcaga tgacaatgct tggaactgcg agaactgttc aaaagaacct gaaactccaa 300

cggttgagag aaaagcgaaa atccaatgaa gatgaatcga agatnaagca acaccagcaa 360

cggatgggtg aaagaaaatg aagatgaaag gttttggaga aaccgaaatt ttgggctgtt 420

aaa 423

<210> 3928
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-G5

<400> 3928

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gggaccctcc aaagataact gtaaatctaa tggcactagg aaatgtacgg ttgcgtacca 120

gagccctcct gttcatcgat ggggaggtct caccacaaca cgctcgggat gtatcactct 180

tcttgactgc tttttgactg caaaaacttt caaagggctt caaaatgtct ttgaaagtaa 240

ccgtgctcga gagagggaac gtgagttgct ttatcctgat gcttgtggtg gcggtggtcg 300

ggtatggctt agtcaaggga ttgctggttt tggtaaaggt catggaacaa gagaaacatg 360

taatttgcat accacgaggc tctcttgtga tacattagtg gatttttggt ctgc 414

<210> 3929
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-G7

<400> 3929

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tatggaagat ccttctcttt cgtcgaagaa caccaaatcc aatggtctcg gacttgcggc 120

ggcggctggt ggtggaagca atctgatcaa caaatggaac ggaaaggctt attctcagag 180

gtatttcgag attctggaga agaggagaga tcttcccgtt tggctccaga aagatgactt 240

tctcaatact ttgaactcta atcaaactct catactcgtc ggtgaaactg gtagtggtaa 300

aactacacag attccacagt ttgtattaga tgctgtggtg gctgacaact ccgataaggg 360

aaggaaatgg ttggttggat gtaccaanct ccgtagaagt tgctgcaaat gtcctgt 417

<210> 3930
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-G9

<400> 3930

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accccagcaa ggggaatcaa ggtatctctg caaataatca agatccactc aactctttcg 120

gtgtaccaaa acagagccaa ggaatgccat ctttcaccaa gtgcttcata aactcgccgc 180

catcatcgat attcacgggg tccaagatcg aagctgagga tggttctccg cttgtgatcg 240

agctcgtgga cgccaccaca aacactctaa gttagtacgg gaccgttctc gtcttctcgg 300

gtcgagctcg tgccgctgaa cgctgatttc acggaagaaa gctggaccgt tgagggattt 360

aatcggaata ttctcaagca acgtnnaang gaaacttccg tttgcncact ggg 413

<210> 3931
<211> 412
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-D7

<400> 3931

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tttagccgcg gataatgtgt tgttggtgga agaaggaagg ccagccacag cggaacatcc 120

atcggccgga ccggtttatc gatgtaaata cgctaaagat ggcctcctcg atctccctac 180

cgatattgat tctccttggc agttctttag tgaggctgtg aanaaatatc cgaatgagca 240

aatgttgggc caacgcgtaa cgactgattc taaggtcggt ccatacacgt ggatcacata 300

taaggaagcg cacgacgctg caattcggat tggatnagca atcanaagcc gaggcgttga 360

tccgggacac tgttgtggta atttacggga gctaantgtc cagaatggga tt 412

<210> 3932
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-B10

<400> 3932

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acgcatccgc aatctttcac ccacctattc aaagctctct ccggaagttt cgaggggttg 120

gttgttggtt ttcccgatga cttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gaaagggaga ataatcggag 240

gagagaaaga cggagaagag ctgtagctgc gaagatatac actgggctta gagctcaagg 300

tgattataat ttgcctaaac attgtgataa taatgaagtc cttaaagctc tttgtgttga 360

agctggttgg gttgttgaag aagatggtac tacttatcgc aagggatgca aagcctttac 420

ctggtgagat aactggggac ttcatcccca gttacn 456

<210> 3933
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-B12

<400> 3933

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tcaacaaaag tagcagcttc ctcaacacca tccctaattg ttctctgctt cgagacctaa 120

acatgagctc tgtatatccc aaaaggaaac tcctccctga ttttctcaca gatgaaatct 180

ttaagagtca tcgacatgtc ttgggaacca cttcaccggt agcttccctc tctctatctt 240

caatctcact gacttagagt atctcaattt caatgagaat ccagagcttg atctatggga 300

ctctaccgga ttctgtctct aagctgacaa agctcacaca catgctcttg atgacgtgta 360

tgctccatgg taatatccca agattcattg ggaacttgac ttctcttggt tgatctgaac 420

ttaacgggaa antcctcccc cggngagaat tccaaaanga aattagggga ac 472

<210> 3934
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-B2

<400> 3934

agccctaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngacc 120

acgaagctaa accctcaatc ttccccactc attttcactg gtacacttcc tctcttgcct 180

cactcacctc ttctcctccc tccattatcc acacatacga caccgttttc catggcttct 240

ccgctagact cacttcacaa gacgctagtc aactcttaga ccatcctcat gtcatctctg 300

ttaacccgga acaagtccgt cacttgcaca caactcgttc ccctgaagtt tcttggtctt 360

angtccaccg acaaagcggg tctactcgaa agagtctgat ttcgggtcgg gatctaagtt 420

<210> 3935
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-B5

<400> 3935

agtggttgct tgcacgttga ccaaacttgt tcttaggtta gaagaggttc agtcttctaa 60

aactgaagta ataagacag tcacacaggc tttgttgatc atggtttcta tgttgcaact 120

tgggcaatct cctgtttctc cacaccctat tgataatgat tcgtatgaga ggattgtgtt 180

gtgcataaaa ttgctttgcc ataggaatga tgagatgaaa aagatatggt tagaatcctg 240

ccgccagagt tttgtcaaga tgatttctga aaaacagctt agagagatgg aggaactgaa 300

ggcgaagacc caaacaacgc atgctcaacc tgatgatcta attgacttct tccatctaaa 360

gagtcggaag ggaatgagtc aacttgagtt ggaagaccaa gtacaaagat ga 412

<210> 3936
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C1

<400> 3936

acctgaaaga actcgccttg tctctcattc ttcttctcca tttcgaaaag aagatgaagg 60

tgatagataa gatccagtca ttagccgacg aaggcaaaac agcgttttcc ttcgaattct 120

tcccaccaaa gacagaagat ggagtcgaca atctctttga gagaatggat cgaatggttg 180

cttatggtcc aacgttttgc gatatcactt ggggagctgg tggatctacc gcagatctaa 240

cgcttgatat agcttcgagg atgcaaaacg ttgtttgtgt tgagagtatg atgcatctta 300

cgtgtactaa catgcctgtt gagaagattg atcatgctct tgagactatt agatctaatg 360

ggattcagaa tgtgcttgct cttaaaggtg atcctcctca tggtcaagat aag 413

<210> 3937
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-C12

<400> 3937

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ttttttagg gttttcgtaa gaacagagca aaaaacatgt ttggaagagg accttcaagg 120

aagagcgata acacaaagtt ctacgagatc cttggtgttc ctaagaccgc agcaccagaa 180

gatctcaaga aagcttataa gaaagccgct atcaaaaacc atcctgataa gggtggtgat 240

cccgaaaagt ttaaagagtt agcacaggct tatgaagttt taagtgatcc tgagaagcgt 300

gagatctatg atcaatatgg ggaagatgca ctcaaggaag gaatgggtgg tggaggtggt 360

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aagtcataac ccggggaaag gaggcaaagg ctttggttaa 460

<210> 3938
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C4

<400> 3938

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gacgagattc tcgccgtgat tcccaccgac ccttatgatc aactcgacct cgccaggaag 120

atcacttcca tggctatcgc ttcaagggtt tcgaatctgg aatctcaagt ctccggcttg 180

agacagaagc ttcttgagaa ggatcggctt gttcatgaac ttgaagacag agtctcttcc 240

tttgaaagac tttaccatga agctgactcg agtttgaaga atgttgtcga tgaaaatatg 300

aaactgactc aagaacgaga ttcactggca atcactgcga agaaactcgg tcgtgattat 360

gcaaagttgg aagcattcaa gagacaattg atgcagtcat tgaatgatga taatcca 417

<210> 3939
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-C6

<400> 3939

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aaaacatctt cgtcatgcgt cacggtgatc gaatcgacaa tttcgagcca ctctgggttt 120

caaccgccga gagaccttgg gatccacctt tggttcaaga cggtatgatt cgagcgtttc 180

gaaccggtca aaggatccga tctcagatcg ggttcccgat tcaccgtgtc ttcgtctccc 240

ctttcctccg atgtcttcag acagcttccg aagtcgtcgc agctctatca gccgtcaatg 300

tcgatcctaa cgccatgtct tccaaagacg tcccttccat tgataaatct aagctcaagg 360

tttctattga attangtttg tgtgagatgt tgaactcagt ggctataagg ngtga 415

<210> 3940
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-C8

<400> 3940

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acggcgagtt tcctggtccc accataaaag ccttcgccgg agacaccatc gtcgtcaatc 180

tcaccaacaa actcaccacc naaggccttg tcatccattg gcatggaatc cgtcagttcg 240

gaagtccatg ggcagatgga gcagcaggag ttactcaatg cgcaattaac cctggagaga 300

cttttaccta caatttcact gttgaaaagc cgggaacaca tttctaacat ggacactatg 360

ggcatgcana gatcagctgg gctatacgga tcgttgattg tggacgtggc taaagg 416

<210> 3941
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-D10

<400> 3941

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catcactact ttgtactaaa atccaaacca tgacttccaa cgttcaagct ttcagaaaca 120

aacagcccaa ggaatcagaa aaacccgtcc gaagagcaga gaaggaggaa gtggactaca 180

tgcagagagc tcagtggcta agagctgcct tgcttggagc caacgatggt ctggtcacaa 240

gtcgctcgcc taatgatggg tgttggttcc atccaaagaa gacgtccaag caatgcttct 300

cgttggtttt gccggccttg ttgcnggtgc ttgtagtatg gctattggag agtttgtgtc 360

tgtgtgcacc caaagggata ttgaaactgc acagatgaag agagctattg aacataagac 420

atcactatca gcaatcgacg aacaaagang gaaggaagag aaagaaanga aaagggctgc 480

ca 482

<210> 3942
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-D12

<400> 3942

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tctctctctc tgtctgtgtg tgaagtgaga ggatctttgt ttggttctgc aatcataatt 120

tcgtgatata ctaaaaaaaa tgcaatttcc tcttctctct tataagcaga gaccctacta 180

ctctttgatc gaattttcct tgctctcttc tctttgttct ctcatgtttt tttctcccta 240

aatttatggg ctttgctctc tctctaagcc acactcacac tctaaagcac tcgtctttct 300

tcttcttttt cttcagaaac agttattttg acttgaaaaa ccagagcttt aatcctggat 360

tcatggcaaa aagagcatta ctttttcttt cctctctcac tttcttgttt catttggctt 420

aaaaattcaa tgataatttt ggaattgggg ggaaaaaa 458

<210> 3943
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-D2

<400> 3943

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aaaaaaccat gcattcactt ccggtgaatc tcgtcctcac cgtacttacg gtgttcctaa 120

catcaccggc gcaagttatc ggataccgtc catatccacc aaaaaccaac ggctccgatc 180

aaatcttcga cgcttcaaaa aaattcgaag gctcatcgaa tctcgtccgc ctccgttacc 240

acatgggtcc agtcttaacc aacaacatca ccgttcaccc aatctggtac ggcacgtggc 300

aaaaatccca gaagaaaatc atccgtgagt tcattaactc aatctcagcc gttggattta 360

aacacccttc agtctccggt tggtgggaaa accgtacagc tttacactga ccaaaactgg 420

ga 422

<210> 3944
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-D5

<400> 3944

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caacggagaa accaaataac aagcacgcgg ctgattcgtt ttccagcgag gatttggtct 120

cacgcggaga aaccaaataa caagcacgcg gagatcaatt atttttattt tcgtagaatc 180

tgattgaaat attaagaaaa aagagaaaaa agagaggaaa agagcaaagt aagtaggata 240

gatggctagt gtccagcaaa atgggcaacg gtttggcgtt tcagaaccta tctctatggg 300

aggaccaacg gagtttgatg tgatcaagac aagagagctc gagaagcact tgcaagatgt 360

tggattgtac gagagcaagg aggaagctgt tagaagggag gaggttctgg ggat 414

<210> 3945
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-D6

<400> 3945

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tgtatagatc tctgtggttt tcttggccaa atctagtgag atctttttgg tttctcgaat 120

tcgatgaaaa tgagacgagg caattcaagt aacgaccatg aacttgggat tctacgagga 180

gctaactcgg acaccaactc ggacacggag agcatcgcta gcgaccgtgg tgcctttagc 240

ggtccgcttg gccggcctaa acgtgcgtcc aagaaaaacg caagattcgc cgacgatctt 300

cccaagagaa gcaatagtgt tgctggcggc cgtggtgatg acgatgagta cgtggagatc 360

acgctagaca tcagggacga ctcggtggcc gtccataatg tccaacaagc aagctg 416

<210> 3946
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-A9

<400> 3946

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ctgatcccag tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnagg ttgcaaaggc ttcttcgagt ggacagaaga agaaggacgt 180

caagaaggaa acgggtctcg gactcagtgt taagaaagat gagaacttcg gggaatggta 240

ttctgaggtt tgtaaacaag atatgattga gtactacgat atctctggat gttatattct 300

acggccatgg tcaatggcca tttgggagat tatgcaaatt ttctttgatg cggaaatcaa 360

gaaaatgaag gtcaagaatt gctatttccc tctgtttgta tctcctgggt gtcttaaaaa 420

angagaaagg ccacatccaa aggaatcccc ccctaaggtt tccttnggtt 470

<210> 3947
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-G10

<400> 3947

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ttgctcctct actccacttc cacctccgga gataggtaac ttcgtcgtca angtcgagac 180

cccgataacg ttggaggaag agtcggctgt ttcagactan cttagtggtg tatctaatta 240

ncagtccaaa gttactgatc ccaccaaaga agaaactgga ggagtaccgg agattgctga 300

gtcttttggt aatatggaag tgactgatga gtctcctgat cagaagccag gacaatttga 360

aagagacttg tcgacgagaa agcaaagaat tt 392

<210> 3948
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G11

<400> 3948

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tgagatcagg gactcgggaa acatggacag catcaagtca cactatgtta ccgactctgt 120

ttccgaggaa cgccgctctc gtgagctcaa ggatggagac catcctttac ggtacaagtt 180

ttcgatatgg tacactcgtc gcacaccagg ggttcggaac cagtcttatg aagataacat 240

caagaagatg gtagaattca gcacggttga aggattttgg gcctgctact gtcaccttgc 300

tcgttcttct ctcttgccta gtccaacaga tcttcatttc tttaaggatg ggattcgtcc 360

attgtgggag gatggtgcca actgcaat 388

<210> 3949
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-G2

<400> 3949

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ataaacagag ggagtcgcca aattttctca tcattttctc gagaaaatag actaaaagcg 120

attcccgaga gaaagaaaga acaaaaaaaa aacatccgag tgaaaatgag agaaattctt 180

catattcaag gaggtcagtg cggaaaccag atcggagcta agttctggga agttatttgc 240

ggcgagcacg gtattgatca aaccggtcag tcatgtggcg atacagatct acagcttgaa 300

aggatcaatg tctattttaa cgaagctagc ggaggcaaat acgttcctcg tgctgttctt 360

atggatctgg agcctggaac tatggattct ctcagatctg ggccgtttgg gtcagatttt 420

ccggcctgat aacttcgttt ttggtcagtc cnggtgctg 459

<210> 3950
<211> 411
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-G3

<400> 3950

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tctatataga atcatataag tggtacatac ctctcaaatc gaggaagaaa atgaaaggag 120

gaaagatgga taaattgaag ccaataatag caatcatatc actccaattt ggatatgcag 180

gcatgtacat cattactatg gtctccttca agcatggcat gaaccattgg atccttgcta 240

cttaccgaca tgtcgtcgcc acaattgtca tagctccttt tgctctcatt ctcgagagga 300

aaataaggcc taagatgaca tggccattgt tccttaggat tcttgccctt ggattcctag 360

aaccactttt ggaccaagaa cttgtactac atangaatga aagccacgtc a 411

<210> 3951
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G4

<400> 3951

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gttaggcatg aaggagatcc tgattttgaa gatggtgatg atgctgattt tccaatgatg 120

gatgagggaa ggcagccatt gtctaggaag ataccaatca aatcgagcaa gataaatcct 180

taccggatgt taattgtgct acgtcttgtg attcttggtc tcttctttca ctaccgtatt 240

cttcaccccg tcaaagatgc atatgctttg tggcttattt ctgttatatg tgagatatgg 300

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acttggaccg actctcatta agatatgaga aagaagggaa accgt 405

<210> 3952
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-G5

<400> 3952

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gttggagaac gtggtgttca actctcaggt ggacagaagc agagaattgc aattgctagg 120

gcgatgttga aagacccaaa gattctgtta ctagatgaag ctacaagcgc tcttgatgct 180

agctctgaga gcattgttca ggaagcttta gacagagtca tggtggggag gaccactgtt 240

gttgttgctc atcgtctctg caccatcaga aatgttgatt ccattgccgt gatacagcaa 300

ggccaagttg ttgaaaccgg aacacatgaa gaactcattg ccaaatccgg tgcttacgca 360

tccctcatca ggtttcagga aatggttggt actcgagatt tctcaaaccc gtcaactcgt 420

cgcactcgtt caacccgttt gagccattca ctgtcaacga aatcactc 468

<210> 3953
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G6

<400> 3953

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taactctcag caaaaatgcg atcactttac ttaatcgtct tcatcgttat tagtcttgtt 120

aaagcttcga aaagcgatga tgggttttgt tcagcgcctt cgattgttga atcggatgag 180

aagacgaacc ccatttattg gaaagccacg aatccaacac tctctccttc acacctccaa 240

gacttgcctg gtttcacacg aagtgtatac aaacgagatc atgcgttaat aacaccggaa 300

agtcatgtat acagcccttt acctgactgg acaaacacat taggggcgta tttgatcaca 360

ccggcaacgg gttcccattt tgtcatgtac ttggcgaaaa tgaaa 405

<210> 3954
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-H2

<400> 3954

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gtcatcactc accaaacaac tctcatcaat ataaagagaa gagagtggta gagttatata 120

ttacacacat aaacttagat atagtagtgt tatattcttg attaagtaat aaagatgaaa 180

ggtggaagca tggagaaaat taagccgata ttggcgataa tttcactgca atttgggtat 240

gcaggcatgt acatcatcac catggtctcg ttcaaacatg gcatggacca ttgggttctt 300

gctacatacc gtcatgtcgt agccacggtt gtcatggctc cctttgctct catgttcgag 360

aggaaaatta ngcccaagat gacactaagc aatattctgg aggcttcttg ctcttggnat 420

attagagccc ctcatggacc anaatttgta ctacatagga 460

<210> 3955
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-H4

<400> 3955

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nggggtctcc ctcttcntcc tctctctctc cgccttcctc gtcgagatcc gcgtcgagac 180

ttctccgttt cttctctctc atttcagctc cagacgcggt gcgtcttcag ggatattact 240

aggagctgtg acacttcctt ctgttatgat atctaagtta gttcagcttt caagagctat 300

ttcaatccat gaagctgaac aagatgagct tgcacatgtg acaatgcagt attgggcagc 360

atcgggctaa ttgttgtgct atacttatat atcgatcagt gactat 406

<210> 3956
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-H8

<400> 3956

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tttcgactgc attatgtgga gtgatacatt ccattattgg tggacaacca ttgttgattc 120

ttggtgttgc agagcctact gttataatgt acaccttcat gttcaatttt gctaaaagta 180

gaacggattt gggctctaat ctctttctag cgtggaccgg atgggtttgc ttgtggacgg 240

ggctgttgtt gttcttgtta gctgtattag gcgcttgcac cttcatcaat cgattcactc 300

gacttgctgg ggaactgttt ggtactctaa tagccatgct tttcatgcaa gaagccatta 360

gaggcattgt ggatgagttt ggtgtccccg gaagaacaaa tccaagatna agctgagttt 420

caacctgctt gggtgtttgc a 441

<210> 3957
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-H9

<400> 3957

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cacctgatcg gctccggtgg tcccagcgga ttcgggtcaa gatccaccgc cgatcatgtc 180

acttgtaatt ctgatctccg ttctctaact gccatcatca ctggcgcgac gtcggggata 240

ggagctgaga cggcgcgtgt tcttgctaag cgtggcgcaa gacttgtgct tccggctaga 300

agcgtcaaaa ccgccgagga aacaaaggct cgtatactgt cggaagtttc ctgatgcgga 360

gatcatcgtt atgcatcttg atctcagctc acttacctct ggtccgtccg attcgtggac 420

gatttccaat ctcncaatcc t 441

<210> 3958
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-A4

<400> 3958

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tgacatcatg agatttctcg atggaatggc tanctccgac nacgttcttt tcggttttct 120

tgacgaagga aaccagtcac cggaagattt ctccgtanac ctcaacgccg gcgaanatga 180

cggtgacgaa gacgacaata ataacaattc tgaagataac aaagcttttt ggcaggaaca 240

cgaacaactt cttcagggga cactgtatag gacaagttcc attgagacaa agattagaca 300

agctacaaaa gaagcgttga aacaagttaa atctaagggg tctttattgt gtttgccggc 360

gaccagtggg acggcggttg ccggagttgc ntacgtggcg aanatctcta gacacctaag 420

a 421

<210> 3959
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-A5

<400> 3959

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cgtaggaaag gggaagcaaa taaattatcg aagcccactg gtttcggagc tgatcggtct 120

ctatttctct cttcatacat atctcaagca gataaagttg atcggatact agaatgggag 180

gaggatttag agttttgcat ttggtgaggc cattcttggc ttttctgcct gaggttcaga 240

gtgctgatag gaaggttcca ttcagagaga aggttatcta cactgtcatc tctctcttca 300

tctttcttgt ctgcagtcag cttcctcttt atggaatcca ttccaccacc ggtgcggatc 360

cattctattg gatgcgtgtc attcttgcgt ccaaccgtgg aactgtcatg gagctcggta 420

ttactcctat tgttacatct ggacttgtga tgcaattctt g 461

<210> 3960
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-A7

<400> 3960

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tacaatagct tctggtatcg gcgttctcga gcttccttgt ttgcgtctgt taccaatctc 120

aagcacccaa atccagtttc tcactgttga agctagaaaa caatctagaa gaataagacg 180

cgagcgctcc ttcagccctt ttccagtact tattcaatcg aaccgtcgtc ttcgtcatgg 240

tttctcagag ctcaattcga gttttgatcg ttccaacagt ggagaaactg gttccgatac 300

cactcttaaa gatggtgaag aagtgaggag tgaaagctct tcaggtgttg gtgatagcta 360

tgtgggcttg tttgtgggga atgctnggtt tggacaacga tcctcntgat a 411

<210> 3961
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-G1

<400> 3961

tttttgtttt tatttttctg atgttacaat ggcagacaag atcttcactt tcttcctaat 60

cttgtcttcg atctctcctc tcttatgctc ttctttgatc tcacctctta atctctcact 120

tattagacaa gcaaatgtcc ttatctctct aaagcaaagt tttgattcct atgatccttc 180

tcttgattca tggaacattc caaatttcaa ctctctatgt tcttggactg gtgtttcttg 240

tgacaacttg aatcaagtct attactcgtc tagacctatc taatctcaac atctccggca 300

ctatctctcc ggaaatatct cgtctttcgc cgtcacttgt ttttcttgac atttcttcta 360

acagtttctc cggtgaagct tcctaaagag atctatgagc tctcangcct 410

<210> 3962
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-A8

<400> 3962

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tcataaccat tgtcgtctct tcgacaatag ccgtcgatga tcctgtgtgc ccaacgacgt 120

ccaaactaag ccgagcaagt ttccctaatg ggtttgtgtt tggcacagct actgctgcgt 180

ttcaggttga aggtgcaatt aatgaaactt gtcgtggacc tgctctatgg gatatcttct 240

gtaagagaaa tccagagaga tgtagtggcc acaacgccga tgtggccgtt gatttcttcc 300

atcgttataa ggaagatatt caactaatga agaatctaaa cacagacgca ttcaagactc 360

tcaatcgcat ggtcaagaat atttcctcat ggggaaaaaa ggagaaaggg attgagtca 419

<210> 3963
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C12

<400> 3963

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agcaatcata gcaaagatgc tctccatcaa gcaacaagga acccctaaat ccgagaatcg 120

agaactcctc actcagatgt ttctcaactt catcaatctt cgtcaagcga atcgctcgat 180

tcttatagaa gaagagaaag tgagaacaga aacggaaata gcaaaatctc cggtggattt 240

cacgacgttg gagcttcaca atctcatgta tgagaagagt cattacctca aagctaataa 300

agctagtaga gatttcanat ctangtatcc aaacatcgat ntcatatccg aacaaagact 360

tcttcagtga tgctcccgga agcaatcaaa t 391

<210> 3964
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C2

<400> 3964

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gatgatggta gaaccgaatc agctcgttca acatctcgaa acttttgttg acactaatcg 120

ttcctcttct caacaggatg atagtcttaa agcaattgct tcttctttgg agaatgattc 180

tttatctatt acccaattgg ttagagagat ggagatgtat ttgacaacaa ccgataacct 240

cgttcgagca cgaggtattc tcctgcttgc ggagattctc gattgtttga aagcaaagcc 300

gttgaacgat acaatagttc atacgctcgt tggattcttt tccgaaaagc tggcagattg 360

gagagcgatg tgcggggcgc ttgttggttg tttggctcca ctgaanaagg aaagatg 417

<210> 3965
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C4

<400> 3965

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tctcagtctt cttcttctgc tataacgctc ttctccatca ccgtataatc gagtttcgat 120

tgtctccgac gaagagaagc tgacacttct ggtttcgtca atttctactg ggataaagct 180

ctctactacc tttttgctca gagaaaatgg tttgattttc gaggatgata aaggcttcag 240

gttgttgtag aggtgttttt gccagccttg gtgctggtca tggattttat ctgactatcg 300

tatgtgcctt tgatgaaact aaataatgcc ccggggagag ttagctatgg gctctttaga 360

agactgtttg ttggcttaaa ggctgcctgg gtttaacgnc ttctggtaat 410

<210> 3966
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C5

<400> 3966

agatgtggta tcagatcttc catcttttga agttgcagag accaataccg ttgatagaag 60

tggtggtatg ttagagactc aaaatgtagg acctgaagag atctcagatg atgaaattga 120

gcttcctgaa ggaaaatcaa cagattctca gaatgttgca cctgttcaag atcattcatt 180

atctgatgca gagagaatcc aacgagagat tgcagcaacg tctgtgcagg ctgcgtttag 240

aggttacttg gctcggcgtg ctttttgggc actcaaaggc ataataaggc tacaagcgct 300

tatccgtggt caccttgtta ggagacaagc tgttgcaact cttttctctg tcatgggaat 360

tgtcaggttg caaagcattt gctcnaagga agagaga 397

<210> 3967

<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-C9

<400> 3967

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cgtggctatt agttggcatg ccaaaccttg tcaaggcgtg gaatattgaa accaatgctg 180

accagagtct aagtggacct gttggccaag tctattctct tgttgtgggt actgatctgc 240

tctttgctgg aacacaggat ggctctattt tggcatggag atataatgct gccactaact 300

gttttgaacc atcagcgtca ctgacgggcc atacacttgc agttgttacc ttatatgttg 360

gggcgaacag actttattcg ggttccatgg aca 393

<210> 3968
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-D1

<400> 3968

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gcgagcaatt acagtatcct gcgactcggc gtgatgattc cgtcgtcgat gactatcact 120

gcgtcaagat cggagatccg taccgttggt tagaggatcc tgatgctgaa gaagtgaagg 180

agtttgtgca gagccaagtg aaattgacag attctgtact tgaaaagtgt gaaacaaagg 240

agaagctccg tcagaatata acgaaactta ttgatcatcc tcgttacgat tcaccattca 300

ggcaagggga taagtacttt tacttccata acactggtct acaggctcaa agtgtgcttt 360

atatgcagga taatccggat gctgaaccaa naaggtttgc ctgattccga ac 412

<210> 3969
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-D2

<400> 3969

gaacgcaatc ccaaagccta tcaaggacat ttgggacgaa tggagcattc gaagtacctt 60

aatcttcagt ctcagccttc aaacatttct cattttcttt gcacctcaaa gaaaacgctc 120

atccagaaaa gttttactct ctttcatttg gtcagcttac cttcttgctg attggtctgc 180

caatttcgcc gccggacaaa tctcagatag tcaaggagat gatccagaac ccggagaacc 240

gaaaaagagc gccgagttgt ttgctttctg ggttcctttc ttgctcttgc atctcggtgg 300

tccagataca atcactgccc ttgcccttga agataacgag ctctggctca agcacttgtt 360

gggtcctttc tttcaatcaa gttgcaaacc gtttacgttg ccttttgcaa gtncg 415

<210> 3970
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-D5

<400> 3970

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncg 120

gctcaatacc tacgtcggtt cgagccgggt tggcaaacgg ttcaaactcg ccgaacgtaa 180

ttcaactttc acgacggagc tccgtgctgg taccgccact ttcttaacca tggcttatat 240

cctcgccgtc aacgcttcaa tcctttctga ttccggtggt acttgctctg tttccgattg 300

tatccctcta tgctcaaacc cagcgatcga accttcgcag tgtaccggac cgggtctccg 360

attaatccaa cccgacgttt cctgtaaaat caaacccggt taatcctg 408

<210> 3971
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-D8

<400> 3971

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tgggattgct gatctggaac cgctgtgaaa ttttaggttt tctctgagaa gacaggcaag 180

tttaacgatg gcggcgaaga cggccaagat caaaagctac gccgacgaag gaaaatggtg 240

tcagagtcga ggaaggattg agtctgttca agtctgataa gttcgatgct gatgcttatg 300

tgcaatccaa atgttctatc aacgagaagg atataaaagc agttatgctc gtatcctatt 360

gggatttgaa gaagagcatc tgctgaagaa atgcgggcga a 401

<210> 3972
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-E10

<400> 3972

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attctaaggg gaaggtgtta cctgaaatga ttttgatatg ccagaatctt cgtaataacc 120

ttcagcatcc taatgagtac atccgtggag tgacactgag gtttctctgc cggatgaagg 180

agactgaaat tgtggagcct ttaactccat cagtgttaca aaatctggag catcgccatc 240

catttgttcg caggaatgcc attctggcca tcatgtcgat atataagctt ccacaaggcg 300

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cttctgccaa agagaaatgc atttctaatg cc 392

<210> 3973
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E12

<400> 3973

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tgggcacttg aatggaaacc ttcacaagga gagattggca tgtgctagga tcacacttct 120

tggaacgaat ccttggcctt tcagtgatgg tgtacttttc tttgatagtt caactggaga 180

agaagaagag aaatctccag tttctggtgg tgaaggggtt cctgatacgt tggagcattg 240

tagtgatgat gaaagatttg ctattgtcaa gtatgataac aacaaaacaa atggagataa 300

tgtgcctgct gcagttactg atgatgaacc tagtcacgct gcagatgatc tgctaatttc 360

tggtgtgctg atnaaggaga gaactcctga t 391

<210> 3974
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E2

<400> 3974

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tgaaaccgca actgaaagag ctgaagcttt cctctttggc tggatgttaa agcctttggt 180

anttggggat tatccggata taatgaagag aaccttgggg tcgagattac cggttttctc 240

agaagaagag tcaaaacaag tgaaaggatc atctgacttt gtaggagttg tacactacaa 300

cacattctat gtcacaaacc gacccgcacc ttctctcgtt accagcatta acaaactctt 360

ctttgcagac attggcgcat atccgatccc gctggggaat gctcataatc 410

<210> 3975
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E6

<400> 3975

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cgttgtcaaa ttccttaaat ttcgttacaa aggtttgata tttccgatga gatctccagc 180

aaagacgatg ccgtcgatgt caccttcttc agtttccacg gagaaatctc cacctccgtc 240

agatacttca atggctatag tagctttcga taactccact actcacttct cttcttctcc 300

atcgccgcca cattctcttg atcattccag tgaatcggag aaggaagatg cgaaaagtaa 360

acccgagagt agaagaaaca agaatcctgg aaangttgaa ggaaactcc 409

<210> 3976
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E9

<400> 3976

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aacaggctta cacatggacc aagggtcgtg caatctttgg aagtggaagc ccatttgatc 120

ctgttgtgta cgatggcaaa acctacttgc ctggccaggc aaacaattgc tacattttcc 180

ctggtctggg tcttggtttg atcatgtctg gggcaattcg tgtccgtgat gacatgctcc 240

tcgcagcttc tgaagcattg gccgcacaag tgacangaag agcattacgc caatggtctg 300

atctaccccg ccattctcaa acatcaagag agatctctgc naacaattgc agcctgtgtc 360

gnccgcccaa aaaccnattg acctccggat tggccgtcga aanc 404

<210> 3977
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C11

<400> 3977

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gtctgcntgt cgtaaagaaa tggcgccgag tagacgggat ttacagctta ctccggtcac 120

cggaggttct tcttcccaga tcagtgatat ggaagaagtt ggtcttctcg attcgtatca 180

caacnaancg aacgccgatg atattttgac taaaatcgaa gaaggaagag atgtttccgg 240

tttaaggaag attcaggtcg gagtcaccgg tatgacttgt gctgcttgtt ctaattccgt 300

tgaagcagct ttgatgaacg ttaatggcgt cttcaaagcc tctgttgctt tgttacagaa 360

tcgaaccgat gtcgtcttcg aacctaattt agt 393

<210> 3978
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-F10

<400> 3978

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tgacattgga gctaattcga ctgttgttgt agctggaatt ttacatgata ctttagacga 120

ttcgtttatg agctatgatt atattctcag aacttttgga tcaggagttg ctgatcttgt 180

ggaaggggtc tctaagctga gccagttaag taaacttgct cgggagaaca ataccgcttg 240

taaaaccgta gaagcagatc gtttgcacac tatgtttctt gcaatggcag acgccagagc 300

tgttcttata aagttagctg atcggttaca caacatgatg actctatatg ctttgccacc 360

aatgaagcgg caaa 374

<210> 3979
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-H7

<400> 3979

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ttgcactagc ttccatattt tcaaccaatt ccggtgccgg ccaaggactt tccctaggtg 180

ttctgaatct agccattgtc gtccctcaga tggtaatatc tgtgggaggt ggnccattcg 240

acgaactatt cggtggtgga aacattccag catttgtgtt aggagcgatt gcggcagcgg 300

taagtggtgt attgggcgtt gacggtgttg ccttcaccgc ctccggatgc tcctgccttc 360

aaagctacta tggggatttc attgantttt agcagtgggt ggtttggctc tctt 414

<210> 3980
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A1

<400> 3980

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tactccagag aagtcgaaat gatgggctca gagaatgccg atggattcga agaaactaat 120

ctcaatgcgc aaagggatga tatggagaat ctcgacctag gagtagatgg tggtgaccat 180

cctctgaaga taagcgatgt caacggtgat acatcgaact ctggttaccg tagcgccatg 240

tcaacactct ccaacgtccg tgacccgctc tcgccgccac cgaccgttat gattccagct 300

gattctgatt cactccttgc gccatcctcc tacgaagatt tccgcagcag cttcagctct 360

aagccgatna gcaagcgata actcccnaca tccgagcctc cgtcggtatn gcaaa 415

<210> 3981
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A11

<400> 3981

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tagacgggat ttacagctta ctccggtcac cggaggttct tcttcccaga tgagtgatat 180

ggaagaagtt ggtcttctcg attcgtanca caangaagcg aacgccgatg atattttgac 240

taaaatcgan gaaggaagag atgtttccgg tttaaggaag attcaggtcg gagtcaccgg 300

tatgactgtg cngcttggtc ctaattccgt tgaaacaagc tttgntgaac gttaatgggg 360

tcctcaaagc ctcngttgcc tttgttanag atcganccga tgtcgtcgtc gacccnaaat 420

tt 422

<210> 3982
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A2

<400> 3982

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tcgatcgctg aacggacaca gttcgtggct tacctaatct attcctcttt cttaaccggg 120

tttgtttacc cggtcgtctc tcactggttc tggtcagttg atggatgggc cagcccgttc 180

cgtaccgatg gagatttgct tttcagcacc ggagcgatag atttcgctgg gtccggtgtt 240

gttcatatgg tcggaggtat cnctggactc tggggtgcgc tcatcgaagg tccacgactt 300

ggccggttcg ataacggagg ccgtgccatc gctcttcgtg gccactcggc gtcacttgtt 360

gtccntggga caatcctcct ccgggtttgg aatgggtacg gnttttaacc ccggt 415

<210> 3983
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A3

<400> 3983

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atcccatcca tggcttggtc tantcactag tggtgttacc tccctgtgtg gaataaaaag 180

caaggttttt taatcacttg gattgtttta agatatggca actttgaacc cntttgattt 240

gttggatgat gatgctgang atccaagcca gctcgctgtt gccatcgata anattgataa 300

gtccaagaaa tctggacagg tttcgagctt gccngctaag tcagctccta agcttccatc 360

gaagccactt cctcctgctc aagccntgag agangcaagg agtgatgctc cacgtnggtg 420

gtggaagccg ttgaagattt acccgtggnc gtggttggtt acaaa 465

<210> 3984
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A5

<400> 3984

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tcttaaattt tcttagttgt tgttctctcc tctctctccc agctacgaac atatctctct 180

cttcttgacc atttttaagt ttaagtcata tggagtattt atttcttcac tattttaata 240

ttcggctttg ttgtttgtct ttgatttttg tatcaatcaa atcttttcat caaaaaaaaa 300

aaaaaagg 308

<210> 3985
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A6

<400> 3985

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ccctcgcgtg ccggttcgtc ctgtacgtgc ctcctacgtg aatctctata agtggccgga 120

gtccgacgcc gagttcgtca ggtccgtacg tcgtggaggc ggcctaccgg cggcccgtgt 180

agttgatagc atatcttgtc gacagatgta tctccgtagc tacactttct ctcgggaaga 240

cgacgagagc aaatcggaga aggtgtcgtc tgggacgcag acgtcgtgtc tagggagagt 300

taagggaaca gcgtcgtctc gacgtaagag taaggaggaa aatggcatca tcatcgttga 360

gagtacaaag ccgcgtcgtc nttggtgaaa 390

<210> 3986
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A8

<400> 3986

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acgcgtccgc ccacgcgtcc gaacgcaaat tgggtgttat tgttccatgg agatctgcac 120

acggctttgt tgtgcctcca attttggcgg agcatttgct aacctttgaa cttgaagcgg 180

atgtgaaaac caacgagttt ttcttcgagt tcgaagtcaa ccgttacgaa gtggtgataa 240

aagaatgtgg agtactccaa ctctaagtcc tccatttttt tggaagactg gttgggacgc 300

acttggttga gaacttgaga gaagaacaag acagtgatct attgttattg tttcttccac 360

ttacctgaat cccacctcca gttcctctat aacatccatg gcacggcact tcttcaatgc 420

gtttttccta acaaccaccg tttaaaggcc ganaaaggga c 461

<210> 3987
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-A9

<400> 3987

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gattccaaca attctggccg atctgcgcat cttgtggcgc gcaaagagca atcagcactt 120

agagcagtct taaaatgcat agaagaatac aaactcgagg aagaattccc acccgagaat 180

ctcaagaaga ggttggatca gctagagaag accaaaaccg agaagagaaa accagccgtg 240

attcccgcca acaagagaac ccgagcaagc tacagcggtc caatgccacc agccaaagca 300

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ntccaaagtc actcanctca atacggtgtn ccagcataca 400

<210> 3988
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B1

<400> 3988

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ctcaataatc gccttctcgt acttgtgtga aagctccctt ctttgtggag aaatggcaac 180

tgagaatcct attaggatat ctggaagcaa tgaaagatgg tctaattcta ggaaggtttc 240

tgttcctaat cgaagtggca gtgcgccacc gaacatggag gggtcttttc tagctgtgga 300

taatctattg tcacgacagg gcggctcagt ttacaataac ttgatgctac cgcgttacgg 360

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tccaacgatt tattanccta ctgagtatca gttcaataga caaaccgt 468

<210> 3989
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B12

<400> 3989

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagag gcctatgcag 120

cccccacgta agctcaataa ttattgagag gatattttat atacatgcta atctagtaca 180

catatacaat ctagtaacaa tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnttaaaaca naaggnnnnn 300

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nnnnttgata aatttacan 379

<210> 3990
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B4

<400> 3990

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tttgagtgtc gggttcgttt tagctgtaat ctttttttcc ggcgttcgat ttgaaaaaat 120

ccggggaaca ggtgatcgga atcacggcta tacacgggat atcacggggt gttagctcac 180

atgtccatat tgtccgacag aagggttgtt taatcgaaac taatcctttg ccgcacggag 240

gacgtggagc tctgccgtct gaaggcggca gcccttccga tctcctcttt ctcgccggtg 300

gcggttccag ctttaacttc ttttccttta ggttttagga gttanggttt gttagtgttt 360

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<210> 3991
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B5

<400> 3991

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cgcaattcgt atcggtaatt tttccttttg atcgcatttt ttttttatct ttgatcttcc 120

gtattaaacg tgctcgatct atatactcaa tgatcttata tgtgtatgat catgtaattt 180

ggaagttgaa atgtaaatca tctattcctt ggtaaattat tcttcgattt tttttctgat 240

ataggttaat ggtaattcct gtgattttta ctgatgtaat ctggtgttga ttgttgtgaa 300

ttcttgatct atgagattat gtcttaagat ttgccaaatg ttaaagtttg tttgatcttt 360

gacaaaatat tgtaggttta aagtaaaaaa gcaatgggag gtggtaaaag acaagcatca 420

tgatgagcaa gagaaa 436

<210> 3992
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B7

<400> 3992

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nnnnnnnnnn nnnnnnnngg agcaaacatt tcacacgtgc aaggccagtg ggtggaaaaa 120

aatactagtc aaaatggatg gatggttcta gaagcaggga acggaaaaag cactccaaga 180

gacaagttat gcctgccttc ccattcggta caagttcttt ctaacagtgc atttcaacct 240

ctgggatacc cttcaactga ccacagcaag ttatcgggcg aaagagcatc tttcaaatgt 300

gaagttcgtc aaaggaatcc tgaggtttcc gtatgataag ctatgtggaa tcaagtgtgg 360

catcaaatgt tccaaggctt gaatcatgg 389

<210> 3993
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-H3

<400> 3993

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caatcccact cccgccaaat ccatcactcg acgtcactac tttcatttct tcacaagctc 120

atcgtggccg tatcgccttc atcgacgctt ccacaggtca aaacctcacc ttcaccgagc 180

tatggcgtgc cgtggaatcc gtcgccgatt gtctctccga gatagggatt cngcaaaggc 240

cacgtcgtcc tcctcctctc cccaaactca attttattcc ccgtcgtttg tctctccgtc 300

atgtcactan gcgcaatcat caccaccacg aatccactca acacttcaaa cgangatcgc 360

taaacagatt aangattcaa atccaatcct cgccttcaac acatcggcag cttctcccga 420

<210> 3994
<211> 435
<212> DNA
<213> Arabidopsis thaliana

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<223> Clone ID: LIB22-064-Q1-E1-C10

<400> 3994

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ccaaagtctt gagattttga atctctctct ttcacaagat tctagttcga cccagattca 120

ttcatcaaat ggactctctt cctgatgcga tccttcaata cattctttcc tacctgactt 180

ctgcaaggga tgtggctgct tgcaactgtg tctccaagcg atggaaagag tctacagact 240

ctgttaagag cgttgttttc cacaggaatt cattcgaaag catcatggag actgatgatt 300

ctgactccat cgttcggaag atgatctctt cttctcgtcg tcttgaggag cttgtggtgt 360

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gaangggtaa ttgga 435

<210> 3995
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E6

<400> 3995

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gatcaaagcc ttgatgagat caaacttctc aagtatgtca accangcatg atcctgctga 120

caaatatcat ctccttcgac tgtatgacta cttctacttc cgggagcacc tgttaatagt 180

atgtgaactt ctcaaggcaa acttgtatga gttccaaaag tttaataggg aatcaggggg 240

agaggtttat ttcactatgc caagattgca gtcaattact atccagtgct tggaagcatt 300

gaactttctg catggtctcg gccttataca ctgcgactta aaacctgaaa acatactaat 360

caaaagctac agcagatgcg anatcaaagt tattgatctg gggaagtagc tgtt 414

<210> 3996
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E7

<400> 3996

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gcggtaacca gattggttcc aagttctggg aagtcatctg cgacgagcac ggcatcgatt 180

ccaccggacg ttacagtgga gacactgcag atctccagct tgaacgtatc aatgtctatt 240

acaatgaagc ttcaggtgga agatacgttc ctcgtgctgt tcttatggat cttgagcctg 300

ggtactatgg ataagtanca gatccgganc gtttggtcag atcttccgtc ctgataactt 360

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<210> 3997

<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F1

<400> 3997

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ccgtgtcttc gtctctcctt ttatccgatg tatacagact gcttccgaaa gtcatcgctg 300

gctctctccg ccgtcgattt cgatcctaac gctacttcgt ccaaagacgt cacttcaatc 360

gatanatata aagcttaagg tttccattga atttggtttg angtgagatg ctgaattcaa 420

t 421

<210> 3998
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F10

<400> 3998

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agattgttcc tttagggcta atgttctttt gcatcctttt caattacaca atccttaggg 120

acacgaagga tgttttggtg gtgacggcta aaggaagttc tgctgagatt ataccctttt 180

tgaagacatg ggtgaatctt ccgatggcta ttgggtttat gttgctatac accaaacttt 240

ccaatgttct ctccaaaaag gctctctttt acactgttat tgttcctttc attgtcnact 300

ttggagcctt tggtttcgtg atgtaccctc tcagcaattt gattcatcct gaagctcttg 360

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<210> 3999
<211> 419
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F2

<400> 3999

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tcgaactcgc caaacgtctc ataagtcaag acaatcctcg gatccacacc atcaccatcc 180

tcnattgggg attacctttt antcctcaag ctgacacaat cgctttcctc cgatccctag 240

tcaaaaatga gcctcgtatc cgtctcgtta cgttgcccga agtccaagac cctccaccaa 300

tggaactctt gngggaattt gccgaatcnt aacattcttg aatacntcaa agaaaatggg 360

ttcccatcat naggagaagg tctctccact ctcttgtctt ccggcgataa atcgggttn 419

<210> 4000
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F3

<400> 4000

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tgccgaatct gccttgaaac tgatggtagg gatttcattg ccccatgcaa atgcaaagga 240

acatcaaagt atgtacatcg tgattgcttg gatcattgga gagctataaa ggaaggtttc 300

gcgtttgcgc actgcacaac ttgcaaggct ccatattatc tgagagttca caagtgctgg 360

agatangaaa tggcggacat tgaaagtttc gcttcnttgg tactcgagac aattta 416

<210> 4001
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F4

<400> 4001

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tatctcccag gtgttgctcc tcaggatttc nagaagggtg atganctgaa ggtgaaagtg 180

aataaattaa cttccataaa gactcagctt ccatactcgt attactccct tccttttgt 240

cgccctangc aagattgtgg acagtactga gaatcttggn gaantgcttc ngggtgagcg 300

gattgagaat gccccatacn cgtttaaaat gcnggangca caaatgtgca aataatctcg 360

ggcccgggtc antcntgatn gccaanncaa ctnaangcgt ttaaacgaaa aanatt 416

<210> 4002
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-F5

<400> 4002

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aacagcagac gacgatgaag aaaccgtaac tcaaaaccgt aacggatcta ccaaaaacgc 180

tcgatggacc gtcgaaccgg ttcgtgattc tttccatgtt attcgtctta aaagctgtta 240

cggtaagtac ttaaccgctt ctaacgagcg gttcttgctc ggggctacgg ggaagaaagt 300

gattcanntt gaaactgagt cgggttgatt cgtctgttga agtgggaacc gcttagagaa 360

gggtctaaga ttaagcttan gactagatct gggtanctaa nttacgaggg taatgggtg 419

<210> 4003
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-F7

<400> 4003

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gatcagacgg gacggtatgt aggagattcc gagttacagc ttgagagggt taatgtatac 180

tacaacgagg cgagttgtgg aaggtacgtt cctcgcgctg ttctcatgga tttggagcct 240

ggaaccatgg acagtgtcag atctggtccg tacggtcaga tctttcgacc ggataacttc 300

gtcttcggtc agtccgggtg ctgggaataa ctgggctaaa ggtcactaca ctgaaggtgc 360

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<210> 4004
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G10

<400> 4004

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cctccctagc tcgtcctgac aaccatgtcg aggactctgt aggccgtcta cttcgtcctg 180

gtcaaacgta ncacatcgta cntgcgaatc ccgagacagg aggaggtatt ttctcgaaca 240

gtgaagaaat ctgtcntcgt ganatcttcc agtcanacaa tccgcntgan ttgggcgnan 300

ccatcangnt tangtcngag ttatggtttg ttaacgaata tgantagtat cnccancgag 360

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<210> 4005
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G11

<400> 4005

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cgcatgactt tgccggagaa gatcggtcag atgactcana tcgaacgcag agtcgcttct 180

ccctccgcct ttacagattt cttcatcgga agtgtactaa acgctggang tantgtaccg 240

ttcgaggacg ctaagtcatc ggattgggct gatatgattg atgggttttc agcgatcagc 300

gttagcgtcg cgtttgggga attccanntt atctatggca ctgaccctgt ccacggnaac 360

aantantgtc tacggcgcca ctgtcttccc gtcaanaaag 400

<210> 4006
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G12

<400> 4006

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cctcttctac gacgttgcan aaactaagaa gagatgggtc ttctctccaa cagaatcgat 120

agatcgagtt tgaaacctgg agatcatatc tactcctgga ggactgctta natctatgcc 180

catcacggca tctatgttgg agatgataga gtcatccatt tcacgnanac gaggccaaga 240

agttggaacc gggactgttc tagatctcat actagtcagc tcaggtcnat ccngaaacca 300

cacccactgt ccaacctgtg ttccacctaa cgaaggtcac ggtgttgttt cctcatgcct 360

taantgtttc cnanccggtg gggtcctggt ancggtttgg gt 402

<210> 4007
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G6

<400> 4007

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ctttcatgga cgagattctg actcgtgaat tccgtactct catcaccgac acttcctcat 120

cggaatcact cccgagcttc ttcccccgtc acgcctcctc cgccagagcc ttcgttatca 180

gcggcagact tccggtaacc gatgaactcc tttctcatct ccctttctctc cagattctcg 240

tctgcactag cgtcggcatc gatcacatcg atctcgccgc atgcaagcgt cncggnatcg 300

ttatcaccaa acgctggcaa cgcgttttcc gatgacgttg ctgatttgtg ccgtcggttt 360

gcttaataag cgttctccgt cgtattcctg ccgccgattc gttaacgtcc gggtccgg 418

<210> 4008
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G9

<400> 4008

ctacangtga nccctatgct aangttggtg actctgctcn tgcttttgat tctgancgaa 60

gctgctaagt cntttgctga gcgtcatggt tgggattata aggtcaagaa ncccaacaca 120

ncattattga aggtcaagtc ttactcngac aacttcaagt ggaaaggcaa tcctcaacca 180

naaaactgat gttacacctt cttccaattc ttctcganca aaagaagaaa cctcanttga 240

tattaattct catgtttctt tgttanttta gcatctgtga gctttttggt tgaaaagaac 300

cattatccat gggctatgtt tacttattac aataatatga tgatgatgat naagcanact 360

cctttganat ttaagancaa naaataaagg gcgggcgctc taanaggat 409

<210> 4009
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-H10

<400> 4009

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naacgctctt tctccgtagg aaaggggaag caaataaatt atcgaagccc actggtttcg 120

gagctgatcg gtctctattt ctctcttcat acatatctca agcagataaa gttgatcgga 180

tantanaatg ggaggaggat ttagagtttt gcatttggtg aggccattct tggcttttct 240

gcctgaggtt cagagtgctg ataggaaggt tccattcaga gagaaggtta tctacactgt 300

catctctctc ttcatctttc ttgtctgcag tcagcttcct ctttatggaa tccattccac 360

caccggtgcg gnttcattcg attggatgcc tgtcattcnt gcgtccaa 408

<210> 4010
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E5

<400> 4010

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agcttctcct ttgaaactag attatctccg ttaatggcgc ctcagatcta accttgggag 120

ttatatatat anacttgttc aactcttctt cgaacgctgt ccaacttctt cctctggttc 180

gatcatcgag atctcgaggt tatttggccg caatgcagaa gcgaatagcc ttgtcgtttc 240

cagaagaggt actanagcat gtgttctcgt ttattcaagc tggataagga taggaactca 300

gtctctctgg tgtgcaagtc atggtacgag atcgagcggt ggtgcaggag gaaagtcttc 360

ancgggaact gctacgccnt gagtccagcg acggtgatta ngagggtccc nganangtga 420

aattccgttg gagcttaang gaaaac 446

<210> 4011
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G2

<400> 4011

ttgcncggcc cggtccagaa ttaacgggtc gacccacgcg tccgtctttc cacaacattc 60

atacgcaact cccttaaatc ttgaaacgac caatttcttc aaaacaatag tttgtttgcg 120

atggcgacag aacaagaagc tgaagttgga acagagacat cctctgtttc cggaaggttt 180

ttgaggaaca gagatttata tctcttcttg ccttttctct taggcttctc tgatcaagaa 240

tcatcaaacg gagatgatga tgatgttgct tcatcgcgtg agagaatcat tttagtcaac 300

ccttttacac aaggaatgat tgtgctcgaa ggctcatcag gaatgaatcc tctgcttccg 360

tagcttactg gagtcacgtg aggaaaggtc gtcctcctgc gtccaaggct tccatccgat 420

gccaatgccg atcgttggag aattgatggc tgtgnangga naatggtgtg ntctgttttg 480

gagggat 487

<210> 4012
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G7

<400> 4012

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taccgttctt ctgactcttg ttgcgaattc ggatcggctg acgcagctcc gattgcacaa 120

caatggcttc tcgtatcatc aatcattcca aaaagttgaa acatgtttcc gctttactgc 180

ggcgtgacca tgctgtggca gtccgctgtt tctccaacag tacccacccc tctctcgttg 240

gaagagaaga tatcttcaag gcccgcctga attattcctc tgtagagaga atttcaaaat 300

gtggtactgg caatgtaaca atgcttagtg gtatttcaac aacgagcaca aaanctaanc 360

agcccaatgg caggaccaaa actatttaaa ggaatttata agctcccaag atgcgatcag 420

tgagaggatt ttcatccagt 440

<210> 4013
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G9

<400> 4013

aactcgaaaa cgaagaaaaa tggcgagctc cgatgctctc ttgccaatct ccgccagaga 60

agaagaacca ttatgtcctt acacgagatt accaatggcc gacccgaatc aagaaaccca 120

tggcccccgg agaagaagac cctttaaagg tctcctcgcc gtctcatttg gtctcttgtt 180

catcgccttt tacgtcgctc tcatcgccac acacgacgga tctagatcca acgacgaagg 240

gatcgatgaa acagagacga taacgtcacg tgcacgtctt gctggtgtgt cngagaaacg 300

taacgatggg ttatggaaac tttccggtga tcggaacacg ccggcgtttg aatggaacaa 360

tantatgttg tcgtgggaac gaacggngtt tcantttcag cctgagcaaa attggntgaa 420

c 421

<210> 4014
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-H8

<400> 4014

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aaaaccctag atccaagatc agacctaatc taatcgaaac tcatagctga aaaatgaaga 120

gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct tcatcatcat 180

caatctctaa agataagatg atgatggtga aaaaagaaga agacggtgga ggtaacatgg 240

acgacgagct tctcgctgtt ttaggttaca aagttaggtc atcggagatg gcggaggttg 300

ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat ggtttatcgc 360

atctcgcgac gggatactgt tcattataat ccngtcggga gctttaagtc ttggcnt 417

<210> 4015
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-A11

<400> 4015

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aaaatttgtg attcatacga tccatagagg atttaattat ttctgttggt gattgctgca 180

agtttcttta tatgtgaatt ttatttgcca aaactaattt atttgtatat acatgatatg 240

tgagcagaaa tatctgagat agaagcgaaa gataaggaat gtctaaaagg atacattgat 300

gcgcctttaa gctattgtat ggctaggatt tatccgtcgt tgtgttatcg aaattgtcgt 360

ttttacaagg gcgcgaaagg tgggaaaatg cgacg 395

<210> 4016
<211> 423

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-A4

<400> 4016

aacttgatta ttttttctga tctgagaaaa aaaatggcga atggagctaa tagagtggat 60

ctcgacggga aaccgataca accgttgaca atatgcatga tcggcgccgg aggtttcatc 120

ggttcacatc tctgtgaaaa gctcttgacc gagacgccac ataaggtgct tgcgctcgat 180

gtttacaacg ataagatcaa acacttgctt gagcctgata ccgttgaatg gagtggtcgg 240

atccagtttc atcgtatcaa tattaagcat gattcgagac ttgaaggtct tgttaagatg 300

gcggntctga ttataaatct tgctgcgatc tgtactccaa gctgattaca atacacgtcc 360

tcttgatact atctacagca atttcattga tgcgcttcca gttgtgaaat actgttctga 420

gaa 423

<210> 4017
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-A5

<400> 4017

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agacacacaa gaggttaagt tggagcaagg tttgaagatt gtgaaaattt tcaaggagca 120

tagcagcaag acttgcattt tggatgattt ctcattctac gaggttcgac agaagactat 180

cttggagaag aaagccaagc aaacccagaa acaggtaagc gaggagaagg taaccgatga 240

aaagaaggaa tctgcaactg cagagtcagc gagcaaggaa tctcctgcag ctgttcaaac 300

gtccagtgat gttaaggttg ctgagaatgg gtctgttgct aaaccagtca caggcgatgt 360

ggtggcaaat ggttgctaac taagaggatg gtgtcgctca cggcatgggc ataaaactga 420

ctagagatga agatatg 437

<210> 4018
<211> 432
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-A6

<400> 4018

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cgtttgaaat ctcttatatc acggtttaat aacgccgtgg tattcactgt tacgactagc 120

tcgccggaga agaagaagaa tgaaggagga gaagaaagac gacggagtaa tggctgagga 180

gaagccttac atgttctgga tttggacttt ggcttctacg attttccgat tattcctgat 240

cttttccccg gcaaatatca acctatcttc ccgtccggag gtctccaccc ctcacaccag 300

ccttcgccgc cttgctgaag gttactggtt gaagcagtca tcactgtcgc catacgcagg 360

atcaatgtat catggctctc cattgctact ctccattcct cggtcntctc acagttcaga 420

ggatcgangg gc 432

<210> 4019
<211> 316
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-A8

<400> 4019

ccgaacaatc gttttacatg gttggaggta tcgatgaggt ggttgcaaag gcagagaaga 60

tcgctaaaga gtcagcagct taagagattg attcagatct ttcatgctta atacttctct 120

ttttttttcct gacaataacg aaaaaaaaaa accaatgcgt gcgactctcc gaccaaacgg 180

aatctgagtt ccgtaattat agtttctttt ggttcaaatt ccatgagagc tggcaagatg 240

atactgaaca gatccattca ctgttaatca aatttttggt tgtttnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnngg 316

<210> 4020
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-A9

<400> 4020

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cataagtttg agtatagact gagagtagca ttgggacatg atggagattt gacgttaaca 120

tctcgtgtta agaatactga tacaaaacca tttaacttca catttgctct tcacccctac 180

ttcgctgttt ccaatatcag tgaaatccat gtcgaaggat tacacaactt ggattacctt 240

gaccaacana agaacagaac acgtttcact gatcatgaga aggttataac tttcaatgct 300

caacttgaca ggttgtacct aagcactcca gatcaactaa gaatcgtgga ccataagaaa 360

aagaagacta ttgttgtaca caaggaggga caant 395

<210> 4021
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-B3

<400> 4021

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tcatcacctc ctctgtttca gctaatttcc aaagagacgt tgagatcact tggggtgatg 120

gtcgtggaca gatcaagaac aatggagagc ttctcacttt atctctagat aaatcctctg 180

gttctggatt ccaatccaaa aacgagtact tgtttggtaa agtctccatg caaatgaagc 240

ttgtccctgg aaactccgca ggaacagtca caacacttta cttgaaatca cctggaanag 300

gaagggacga tatagatttc gagtttttan ggaattcaag tggagaacct tacacacttc 360

acacaaatgt ctacacacaa ggcanaggag acaaaggaac aacaantcaa 410

<210> 4022
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-B5

<400> 4022

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atggtgtcaa gatcttgtgc taattttcta gacttatcat cttgggacct tttagatttt 120

cctcaaactc cacgaactct tccacgcgtc atgactgttc cgggaatcat caccgacgta 180

gacggtgata caaccttcga agtaacttct acctccggtg gttcacgtga gaggaagatc 240

attgtagcta acatgttacc actccaatct aaaagagatg cagaaactgg taaatggtgt 300

tttaactggg acgaagactc tctccagtta caacttagag atgggttctc ttcagaaaca 360

gagtttctct acgttggatc acttaacgta gacatcgaaa ctaacgaaca agaagaagtt 420

tcacangaag cttt 434

<210> 4023
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-B6

<400> 4023

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ttttagagtc tctctgcttc aacaagatct acatcgacca ggagattaga aagaatcatg 120

ggttctaagc ataacccacc agggaataac agatcgagaa gtacactatc tctactcgtt 180

gtggttggtt tatgttgttt cttctatctt cttggagcat ggcaaaagag tgggtttggt 240

aaaggagata gcatagctat ggagattaca aagcaagcgc agtgtactga cattgtcact 300

gatcttgatt ttgaacctca tcacaacaca gtgaagatcc cacataaagc tgattccaaa 360

cctgtttctt tcaaaccggt gtgatgtgaa gctcaaggat tacacgcctt gtcaagagca 420

agaccgagct at 432

<210> 4024
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-B7

<400> 4024

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ctccgacgta accatggata gcgatactct ctcaggatta ttggaaaacg tcgccaaaaa 120

attccccgat cgccgagctc tctccgtttc tggaaaattc aatctcactc acgcgcgtct 180

tcacgatcta atcgaacgcg ccgcttcacg ccttgtctcc gacgctggaa tcaaacccgg 240

cgatgtcgtt gctctcacct tccctaacac cgtcgagttt gttataatgt ttttagcggt 300

gataagagct agagccacgg cggcgccgtt gaacgcagcg tacacggcgg aggaatttga 360

gttttacctc tccgattcag attcaaagct attgttaacc tctaaagaag gaaacgcacc 420

ggctcaagaa gcagcttcaa agctgaaaat ctctcacgtc accgctacgc tgcttga 477

<210> 4025
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-G11

<400> 4025

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tgtggagata gttagagaga tttatgagat ttcaagaggg gttattataa cgcacgcatg 180

gtgttcgacg gaaagccgca gagaagtttt gttgctatcc gatttgactg agactcaaag 240

tttgaaaatt gttacttggg tattgagaaa gctaaccttg ggcaagttcc gtatatgagt 300

tgggagtaaa acgacggtga tacatttgac tgtttttcaa ctaaactaac tttgaaatgg 360

tgagccttgt ctgtttcgaa taagagatac acttaacata caccaaagtg gggaagttaa 420

gtcaacctag agaa 434

<210> 4026
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-B9

<400> 4026

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caccaccttc ttccaaccca gaggagacta ccatattgtc cannnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncaa aagtgcagtg aaaacaccag 180

gtgtacctgg cgatgaaacc acagagaagt taccagatga gagtggtgtt gaacccactg 240

agaactcacc aaangctagt ggcattgaac ccacagagag ctcaccaaaa gcgagtggga 300

gctgaagtaa ctggaaactt gagagattcc gatcctgctg aatctcatgc ggatgctaaa 360

agctcnga 368

<210> 4027
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E11

<400> 4027

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aagcctttga atcactctca tgatttacca gcgccggatc aaaacggaga gacttatata 180

tgtagctgca tgatttactt gcgacccacg aatggtgcaa agcttctaat gaagaaatgg 240

agtgaggaac ttcagtccca agcttggtct gagtcaatcc gttttaaagc caaatgatca 300

gcccngcttt naaccttgga acttaanaaa ncagccanca angtnanttt tggggnctnc 360

aacgttcaat tnctccaaat cnanngcatn aaatcctcct aagnaacctt 410

<210> 4028
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E2

<400> 4028

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gagccaaagg tctaggcatg accgttatct cccacgaccc ttacgcgcca gctgacanag 120

ccagagctct cggtgtcgat cttgtttcat tcgatcaagc tatctccacc gccgatttcg 180

tctccctgca catgccttta actccggcca ccaaaaaggt cttcaacgac gaaactttct 240

ctaagatgaa gaaaggtgtg cgtctcatta atgtcgctag aggtggcgtc atcgacnagg 300

atgcactcgt tagagctctc gatgccggaa tcgttgctca ggcagcatta agatgtgttc 360

tgtgaggaac caccatcgan aagatagcaa gactaantca gcatgaanaa tgttactgtg 420

aacacctcat cntg 434

<210> 4029
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E5

<400> 4029

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ggagtttgag tttgttgggt gaagcttatg atcgatgcgg tgaagtttgc gctgaatatg 120

ctaagacgtt ttatcttgga actttgctta tgacacccga aaggcgaaag gcgatttggg 180

caatctacgt ttggtgtaga agaactgatg aacttgtgga tgggccaaat gcttcacata 240

taactcccat ggntttagat agatgggaag caangttaga anatcttttc cgtggtcgtc 300

ctttcgatat gcttgatgct gctctcgctg atacanttgc tagatacccg gtcgatattc 360

agccanttcg agacatgatc nanngaatca gaanggactt gangaaaacg agataccagg 420

a 421

<210> 4030
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-E6

<400> 4030

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tcactagaaa ctcttggtga ctcttttctg aaatatgctg tttgtcagca actattccaa 120

cactgtcata ctcaccatga gggtcttctt agcacgaaga aagatggaat gatttcaaat 180

gtcatgctct gccaatttgg atgtcagcag aaacttcagg gatttatccg cgatgagtgt 240

tttgaaccca aaggttggat ggttccaggt caatcatctg cagcttattc acttgtaaac 300

gatactctac ccgagtctag aaacatatac gttgctaagt acgaggaatc tgaaacgcaa 360

gagtgtggcc gatgttgtag aatcattaat tggagcatat ctcaacgagg gacgtgaact 420

tgcagctttg atgttcatg 439

<210> 4031
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-E7

<400> 4031

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tcttcatatg cgtcttgata tgcccattta acacattcta ccgtccaaca aggttctgct 180

tcatccgcat cttgcggaag attgtttgct caccgttcta caaggttttg atggttgatt 240

tcttcatggg cgatcaactt actagccaga ttccattgct gagacacctt gagacaaccg 300

ggtgttactt cttggctcaa agcttcaaaa ctcacgaata caatacctgc aaaaacggaa 360

gatactatag agaatttgct tacttgattt ctttcttacc ctacttctgg cgtgccatgc 420

aatgtgtaag gaga 434

<210> 4032
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-E8

<400> 4032

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ccggatccga gattaaaaac aatccggatt gtttatattt actttagatc ggagaaagat 120

gccgccggcg accggagata tcgatcgtca gatcgagcag cttatggagt gtaaagcgtt 180

atctgaaacg gaggtgaaga tgttgtgtga gcacgcaaag acgattcttg tggaagagta 240

taatgttcaa ccggttaaat gtccggttac cgtctgcggt gatatccacg gccaatttta 300

cgatctaatc gagctttttc gtatcggtgg ttcttctcct gatactaatt atcttttcat 360

gggtgattat gttgatcgag ggtattattc tgtggagaca gtctcacttt tggtagcact 420

gaaaagttcg ttacagaga 439

<210> 4033
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E9

<400> 4033

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ccaaacaatc ttagtaataa tcccaaaaac cagaaaaaaa ggagctttgc ttttgtagga 120

attaatggat tcagtgaact ccttcaaagg atatggaaaa gtagacgaag ctcaagattt 180

agcattgaag aaaaagacaa gaaaacgtct acttctacta tccatctccg tcgtagttct 240

catcgccgta ataatcgccg ccgtagtcgc caccgtcgtt cacaagaaca aaaacgaagt 300

caacaccgaa gtccacctcc cgagttaaca acatccactt cactcaaagc catttgcagt 360

gtaactcgtt tccctgaatc ctgcatttca agtancccaa agcttccatc ttccaacaca 420

acaagatnca gagactcnat tcangctctc aattgaaaag taanccatcn gatgaacttg 480

attc 484

<210> 4034
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F1

<400> 4034

gttgctacga atggatattc cacatgaagc anaagctgga gcttggggga ttctccctgg 60

ttttggtcgt caccatcatc cctccagtga tgctactttg ttctccagtt ctttacctgt 120

tttccccgt ggaaaactgc aattgagtga taacagagat ggtttctcac tgatagacga 180

tacggntgtt tctcgcacaa acaagtttaa cgaaagtgct gatgactttg aatctcattc 240

cattggaaac ctgctccctg atgaaganga tcttttgaca ggnatgatgg atcatcttga 300

cctgggggaa gttaccaaat gctgangatt atgatccgtt ttgggtagtg gaggagngaa 360

tggaacttga ccctnanttt cgaaaccaac tntcagtatg a 401

<210> 4035
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F10

<400> 4035

tgaacttctt aaccttgtcg agatgaacca tcaactagcc tgtgatcccg aaaccggtgg 60

gtgtgggaaa ctcaaccata tccaccatat tctcactact ccaccacatg tatttactac 120

agttttaggg tggcaaaaca catgtgagac tgtanaagac atagcagcta ctcttgcagc 180

cttgaatacc gagatagaca tcagcatcat gtaccgtggt ctgggaccct aagagcacat 240

atagcttagt ttctgtggtt tgttattatg gacagcatta tcattgtttt gcacatagtc 300

gtgagcacga tcagtggatc atgtacgatg acaaaaccgt caaggtgatc ggtagctgga 360

tngatgttct ttcaatgtgt gaaanganggg acacttgcag ccacaggttc ttctccacga 420

aa 422

<210> 4036
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F11

<400> 4036

caatacaaaa cacaactttc atatataaca aaaaaagtta tagaaatggc caaagacgtg 60

gaaggacctg agggatttca gacaagagac tacgaagatc cgccaccaan tccgtttttc 120

gatgcggacg agcttaccaa gtggtcttta tacagagccg tcattgccga gttcgtagcc 180

actctcctct tcttgtacat caccgtttta actgtcatcg gttacaagat tcagtccgac 240

acaaaagccg gtggagttga ctgcggcngc gtcggaatcc ttggcantcg cgttggggct 300

tttgggtggg catgatcttc aaccttgtct actgcancgc ccggtatccc aanggnggtc 360

acaatnaacc cctggcggtn aacgtttggg gtttggtccn tanccccggg aaaggtaatc 420

cccng 425

<210> 4037
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F12

<400> 4037

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taatgtcatc acgacgtcag catcggaagc tggaccggta gaaggagtct tcgtcggagc 120

tgtatttaac aaggaagaga gtaaacacat cgtaccgatc ggtacgcttc gcaattcccg 180

gtttatgtct tgtttccggt ttaagctctg gtggatggcc caagagaatg ggagaaatgg 240

gccgagatat tccctacgag acgcagttct tattgggcga agagcaacga tgggtcccac 300

cttgagtctg acggagctaa cgggcgtcna gtgtnaccag aaagtttaca ccgtttttct 360

tgccggtaat cngaanggat ctttccgttc ggtgtctcca agggnaacgt taacgattga 420

ngttgag 427

<210> 4038
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F4

<400> 4038

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ctctcgaatt tgatcgatca catatttcat ctgtgtgttt tcattttgag gatgccagca 120

acggaatatc aaagatcatt cgggaggtct tttctgaatt tacggcgaga cacggcggtg 180

aactcggttg agtcaacgac ggttaccccc gagttgactc agatggaagc agagcttgtt 240

tcgtttcaag agaaaagttg ctgagaggtt tatcgatctc aatgcgtcta gttgtgaaga 300

tctactgtct ctcgaaatgg gttgggaagc ttcttgattc cgtttctanc ttgtcaagaa 360

gagttccgtt ccanagtcat caatcatcgt tcgatgaata cnaaacaccg atggattgaa 420

gtggtttcaa aa 432

<210> 4039
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G1

<400> 4039

ggattgtgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnngct aacggcagga gagagagaga cccagaaatc cgntccctcc 120

tctccttgga ttatcggagt cagcgattca tcgtcgctga taaagcttct acctttctct 180

tcgatttttg ttgtgagatt cgattcgatc ttaaggcgga ttacatcgag gtatgcagca 240

nggcgatcaa acggttctga gcttgagacc tgggtggcgg tcgaggaaac agactatttg 300

gttcctcntc ttcttcntcg tcnctcnctt ttggntctct ttcantcttc gggatnnann 360

tctccttcgt cctcatgggt ggtgctcccn gcgtcctctt tnccccgtca aggggtg 417

<210> 4040
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G10

<400> 4040

acacctgncg gtacggctcc aaaattccca aggtcgaccc acgcgtccgn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaagaccg 120

aagagagtac aggaagtgac gattgaattg gnaaaagtta cnaatttgac agggatgacc 180

aagagtaaag ggatanggat tcccggagag aggacangaa tgcgaatgcc ggtgactgcg 240

acgcatttgg cnaatgtatt cattgagctt gatgataatt tcttgaaagc ttctnaaagt 300

gctcatgatg tttctaanat gcttgaagct actaggctcc attancattc taattttgca 360

gataaccgag gacatattga tcactcctgc taagagtgat ncgtgtaatt acatgggaat 420

aggattactt tagagggaaa taccaaatgc ctggattgat ggggaaaaag atgatgtttg 480

atttttg 487

<210> 4041
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E10

<400> 4041

tatggtgtat gtgcgatgcc gtcctcacct caaagagttt atggagagag tgtcccgact 60

ttttgagatc attatattta cagctagcca aagtatttat gctgagcaac ttctgaacgt 120

gcttgaccct aagagaaagc tctttcgcca tagagtgtac cgtgactcgt gtgttttctt 180

tgatggtaac tacctcaagg atttgtcagt cctcgggcgt gatttatctc gtgttatcat 240

tgttgataac tccccacang catttggttt ccaagtggaa aatggagtgc caatagagag 300

ctgggttaat gacccatcan gataaagaac tcccttcact tgcctgncaa tttcctngaa 360

aagcctaant ggngtttaag aangtaaggc caatgattgc caaagnaant caatctaagg 420

ggagaaa 427

<210> 4042
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-B1

<400> 4042

agaaaaatgt tctgttcctc gcagctctca cagccaatga atggcctcaa agacatagtt 60

gagacgagaa attttaaggc ttggctctta gatcagtatg gagttcttca tgatggcaaa 120

aaaccttacc ccggtgctat ctcaacattg aaaaatcttg caacagcggg tgccaaaatt 180

gtgatcatta gtaattcttc tagacgtgct tcaactacaa tggaaaagtt gaaaggcctt 240

ggctttgatc cttctttctt caccggagct ataactagtg ggtgaactaa ctcatcaatc 300

tttgcagagg aganatgatc cttgggtttg ctgcactggg aaagaggtgc aantcacatt 360

acttggnaat gagccgangn agcaatcccc ntnggngggt ccaaaatnct aanatgtttg 420

ttggagaaan gttggaaaa 439

<210> 4043
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-B6

<400> 4043

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gattaaaccc agtttctcaa tttgggtttc aaagaatcgt tgctgggaaa agtaagagct 120

tcttctccaa ttcgggtcaa aggagattgt tttctgatag ttctcggttt cgtcaagcca 180

tggctgcttc tggttctttg ccagtgtttg gagacgcttg tttggatgat ttggttacta 240

cttgttcana tggcttagac ntcacgaana nncnttcnag gtgggtgggn aggcggcacg 300

agttaggttg tccngtaggc gagggatggn gcttgggaaa gagagggagn gaatggatga 360

aggagaccgg ttgggtttgt cactattctg ttgttgatcc gctagaaaaa gagtcgtgca 420

ctcctttggg acattgtcta aagagtgttc ata 453

<210> 4044
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-B9

<400> 4044

ctctgttgct ctacctgttc ttttctctct gttcattctc ttttctttag cttaattcag 60

caaaaaattt atctttgttt ctctcttttg tttctttcct ctgcaaagta aagttatgag 120

agcttaataa tgtttgtctc atcttcaagc ttcagatctg attccttgtt tctacaagta 180

attgtcnctt tctttttcga ttaaccacca tttctgtgaa gaaaactttt tgccttgctt 240

caagattcga agtgaggaaa aattttagct gaaaatgctg gaaattggaa agtcccaatg 300

ntctgttttt cccgtacgaa nacnanctgg naaaancctc cccgtgagct tcnagaaaat 360

atgggttgaa aattggggag antgagactg agaaag 396

<210> 4045
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-C10

<400> 4045

gacgcgtggg cggacgcgtg ggcacacaac caaaaaaacc aacctttttt ttccacctaa 60

atctttgaat atcacaatat ttactattta caatggcgcc acaagaacaa gcagtttctc 120

aggtgatgga gaaacagagc aacaacaaca acagtgacgt cattttccga tcaaagttac 180

cggatattta catcccgaac cacctatctc tccacgacta catcttccaa aacatctccg 240

aattcgccac taagccttgc ctaatcaacg gaccaaccgg ccacgtgtac acttactccg 300

gacgtccacg tcatcctccc gccaaatcgc cgccaatttt cacaaactcg ggcgttnaac 360

aaaaacgacg tcgtcaatgc tcctcctccc aaactgtccc cgaaatcg 408

<210> 4046
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-C7

<400> 4046

acgcgtccgg atttcgaaac cctagtcgat ttcgagatcc aactaactct gctccttatc 60

tcagcttgtt gaatttgcga agtatgggag acgctagaga caacgaagcc tacgaggagg 120

agctcttgga ctatgaagaa gaagacgaga aggtcccaga ttctggaaac aaagttaacg 180

gcgaagctgt gaaaaaaggg tacgtgggaa tacacagttc tggattcaga gacttccttt 240

tgaaaccgga gcttctcaga gctattgttg actcaggatt tgaacatcca tctgaagtgc 300

aacacgaatg tatccctcaa gctatcttgg gtatggatgt tatctggcaa agcaaagtct 360

ggtntggggg aaagactgct gtgtttgtcn cggtctactc ntacnacaag attggnacca 420

tctcctgggc cagggntttc tgc 443

<210> 4047
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D1

<400> 4047

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gctttgtcgg ggccgcgttg tggcaaactg ccaaccgatt atcggacttt tcccgccctg 120

tgtgtgcagc tgtgcctcat taaaccttag gcgcactgtc tgtggtcact gtcaagcgtt 180

cgcgtggtgt cctgggtcga ccaaattttc gattttctct cggcgttgtg ctgtttgatc 240

tgagagcgag cgtcgcgagc catgcaggcg gcgccgcctt ctgacagata ccacctggtt 300

tatatttgct tcctcttact tggtctcggc ttcctcctcc catggaacgc ggcatnaagg 360

gncgtccgat taccttcaan gccacgttcc caaggcgagc cgntcg 406

<210> 4048
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D10

<400> 4048

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tctggatcca agctgatgag ctctacgtct tcctcccaga tggttcagct cgtagctgac 120

aagcatgtac gttacattct gatggcagaa aagaagaaag agagttttga gtctgtggtg 180

atggatcatc taagaatgaa tggtgcatac tggggactca ccactctcga cttacttgac 240

aagctcggct gtgtttctga agaggaaagt catttcatgg ctcatgactt gccagcatga 300

atctggtggc tttgccggta acactgggac acgatncaca tatcctatat acactcaagt 360

gctgtacaaa tcttgggcct anttgacaaa atcaacattc ttgacatttg ggaaagtgtc 420

aa 422

<210> 4049
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D12

<400> 4049

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tcgttgatct ctctgaaagc ttctcttctt cttctcacca tgtctggtta tcctccatca 120

agccaaggtt acggttacgg cggtaatcca ccacctcctc agncaccgta cggatcaacc 180

ggcaataacc ctcctccgta cggatcatcc ggcagcaatc ctcctcctcc gtacggatca 240

tcaggctcct caccgtacgc agttccctac ggagctcaag cgcgctcctt acgggtgnac 300

caacgtcaag caaccgtaag gcgtctcttt caanggaaga ncanaannaa agnccgnaac 360

anagnggaaa acctcaacgg gnggctccta agggggtntc caatctnccc gggtgggct 419

<210> 4050
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-D2

<400> 4050

acgcgtccgc ccacgcgtcc gcccacgcgt ccgaagaaaa tggttcccat catcagagaa 60

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gttcttgact tcttctgcgt ccctatgatc gatgtaggaa acgagtttaa tctcccttct 180

tacattttct tgacgtgtag cgcagggttc ttgggtatga tgaagtatct tccagagaga 240

caccgcgaaa tcaaatcgga attcaaccgg agcttcaacg aggagttgaa tctcattcct 300

gggttatgtc aactctgttc ctactaaggt tttgccgtca ggtctattca tgaaagagac 360

ctacgagcct tgggtcgaac tagcagagag gtttcctgaa gctaaggggt attttggtta 420

attcatacac agctcctcga 440

<210> 4051
<211> 423
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D5

<400> 4051

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tgtgaatgat tgtcggcaaa ttgggattag ttgtcccatt gttcctggaa ttatgcctat 120

taataactac agaggctttt tgcgtatgac tggtttctgc aagactaaga taccagttga 180

ggtgatggct gccttggagc ctatcaagga taacgaagaa gctgtgaaag cctatggtat 240

tcaccttggn acagagatgt gtaaaaagat gttggctcat ggagtcaagt ctcttcatct 300

ctacacattg aacatggaga aatctgctct tgcaatattg atgaatcctt ggtatgattg 360

atgagtccan aatttctcgn tccttanccc tggangacnc cctgcanatg ttttccgtta 420

cta 423

<210> 4052
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D6

<400> 4052

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tgagacggtt aaacacctga tcggctccgg tggtcccang cggattcggg tcaagatcca 120

ccgccgatca tgtcacttgt aattctgatc tccgttctct aactgccatc atcactggcg 180

cgacgtcggg gataggagct gagacggcgc gtgttcttgc taagcgtggc gcaagacttg 240

tgcttccggc tagaagcgtc aaaaccgccg aggaaacaaa ggctcgtata ctgtcggagt 300

ttcctgatgc ggagatcatc gttatgcatc ttgatctcag ctcacttacc tctgttcgtc 360

gattccgtgg gacgatttcg aaatctcctc aatctcncac tc 402

<210> 4053
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D8

<400> 4053

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ctctcgaatt tgatcgatca catatttcat ctgtgtgttt tcattttgag gatgccagca 120

acggaatatc aaagatcatt cgggaggtct tttctgaatt tacggcgaga cacggcggtg 180

aactcggttg agtcaacgac ggttaccccc gagttgactc agatggaagc agagcttgtt 240

tcgtttcaga gaaaagttgc tgagaggttt atcgatctca atgcgtctan ttgtgaagat 300

ctactgtctc tcgaatgggt tgggaagctt cttgattccg tttcnatctt gtcaagnaga 360

gtttcgttcc atantcatna ngcatcgttc cnatgatnac naaaccaacc ganggatcga 420

t 421

<210> 4054
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-D9

<400> 4054

tgttacgcct gccggtacgg cgtccnnaat tccanggtcg acccacgcgt ccgcattctc 60

ancctttttct ctttcgttat cgtagtctca tcctcaagct ttactccacc gcgtcaccca 120

tttgatccct taaccgagac cgaactcaaa ctcgtccgaa ccatcatcaa caagtcgtac 180

cccgttggtc cgaatcataa gttcactttc caatacgttg gtctcaacga acccaacaag 240

tctctaagtc ttgtcttggt actcatcacc gaatcatacc atcaaaccac caccacgcca 300

aagcgttcgg tcattgctcg agacaacggg aaaagaccag agagatagtc cttgaacttt 360

tcctcncgtg ncatcgtctc ggacaaaatt cacgtaggga aatggttacc ctatggtctc 420

aaacgacgaa gcaagaangc atccancgag cttgttgtca aagttcaagg ccgtttaatg 480

actc 484

<210> 4055
<211> 444
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E1

<400> 4055

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taacaagtag agtttcccaa aatattggat atatttcttt ttcaaatttc ggaaaagaaa 120

tgagttgcaa tggatgtaga gttcttcgaa aaggttgcag tgaaacatgc atccttcgtc 180

cttgccttca atggatcgaa tccgccgagt cacaaggcca cgccaccgtc ttcgtcgcta 240

aattctttgg tcgtgctggt ctcatgtcnt tcatcnnctc ccgtacctga actccaacgt 300

ccctgctttg tttcagtccg ttgttgtttg aagcgtgtgg gagaacggtg aatcccggtt 360

aacngagcng ttggtatgtt ntgggnncan gaactgggca cgtatgccaa gcgggngttg 420

anaactggtt cgtcgccggg ggaa 444

<210> 4056
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-A6

<400> 4056

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aactcaaana acagagatgg atttcgagaa gagaaaagct gcgacacttg cttcaattcg 120

ttcatcagtg actgataaat ctcccaaagg ttttctcgac gaacccatca tccctctcct 180

cgaaaccatc aatcatcacc catcttactt cactaccagt tcctgctcag gtcgaatctc 240

aatcctttct caacccaaac caaaatcgaa tgattcaact aagaagaaag ctcgtggcgg 300

ttcatggctc tanatcacac acgacccagc tgattcggat ttggtaattt cncnccnttt 360

cccttccaan gtcanntcag attgacccan ttggaccaac ctaagga 407

<210> 4057
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F12

<400> 4057

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cattcgcgtt gaggaaaatc ggtgttcctc cgaactcggc gancctgacg gaagctcgcc 120

gccgtgtttt cgatttcttt agagctgcct gtagatcnat ccccaccatc atggacattt 180

acaatcttca aggatgtcgt cgctccttct cagctccgct atgctatctc tgctcagatt 240

cggaataacg ctcacatcan cggatccnaa ggtaattgat cntcgtatat tnaaacgaat 300

gganagagct tgctgacatt gtggntcacg caaancagcg tcaccacatc atcgggtcaa 360

tatgtngtng gtgaancggc tccgtgcagg atactgggaa aacanngatc angggaaaag 420

actgganttt cncaagaaat ttctaaaacg agn 453

<210> 4058
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F2

<400> 4058

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aatactggga aaatacttgc ctcttgcctg agacctctaa agaacccaac tgcgatttgt 120

atgcacatta tagagaactg ctatgaaaac tatgaaacgc ccagtgaaaa accagctgaa 180

aatccatctg ggaaggataa acatgagaac aaatctcata taatcaaagc tagtgagagt 240

cattcaccag acggtgaaca gaatgctgtc acagaaacaa aacttattga tcagatattt 300

gcgaattcat tanttctcat gtgttctgag gatgcactgc gcttgtatac tgtaaagtct 360

cnatctcagg gaagtcntga gagcattang gaggtaaatc ttccaaggcc gtgttgctgg 420

atgggaatcc ctaaaagaag atggaagggg aatntgcant actcctgttt taccgaacag 480

ggca 484

<210> 4059
<211> 455
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-F5

<400> 4059

tgtttagacc atcgatccga caatttcata gcgaaaaacc tactgtgagc tacaagaatc 60

tgcctatgaa cacacatggt gatactaatc ccatctttag agctcagagt cagcttcaca 120

tcactcgaat tcgggtcatt gaactgattc ccggggctcc gaatcaccag aagatccgaa 180

atccgttgca tcgcaagcgc ttgcttatcc tgagctgaaa taacaagatg attcacattc 240

gtcgtcctcg cagccgtagc cgccgcagaa gaagacgatg aagacgacga cggagatgga 300

agcacaccgt tatggatctg aactggaact ttccctatgg tatcagcttc actagccatc 360

atttcgaaca gcgtcggact tgatcgtgtc ttgtcgtgca tcgccggagg cggaggagga 420

gacattggat ttagaagacc tgccgttaaa gcgga 455

<210> 4060
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F6

<400> 4060

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ttcattttga tccttcttcc ttcctctgga gatttctcaa atctcttcaa ctattttgat 180

ttgccgccat gtatcgacgc gccacttccg gcgtgcgttc tgcctccgca aggctttctt 240

cttccctctc caggatcgcc tctagcgaga cagcttcggt ttcggctcca tctgcgtcgt 300

cgcttcgcaa tcagacgaac cgatctaaga gtttctcctc ggctctccgc tcctttcgag 360

tttgctctgc ttccacgcgg tggagccatg gtgggagctg gggatcgcct gctagccttc 420

gcgctcaagc taggaantca nctccggtta gggagaaant tgaacggaaa t 471

<210> 4061
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F9

<400> 4061

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caaaatcttc caatcacatc ttttgaagaa agttacactc aacttttgg tgacaagaac 120

ttatttgttc atcaagatgg caaatctgtc cggttaacgc tcgatgaaag aaccggttcc 180

ggttttgttt caaatgatta ttacttgcat ggattcttca gtgcttcaat taaattacct 240

tctgattata cagctggagt tgttgttgcc ttttatatgt ctaatggaga tatgtatgag 300

aagaatcatg atgagataga ttttgagttt cttggtaaca ttagagaaaa agaatggaga 360

gttcaagaca aacatttacg gtaatggaag tactcattca ggaagagaag agagatataa 420

tctctggttt gatcctactg aagattttca tcaatacagt atcctctggt ccgattctca 480

cat 483

<210> 4062
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-G1

<400> 4062

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cgcgtccgaa gcaatctacc gaaccgactc agagcttttg agtcttctaa atctctatcg 120

aatttttcta gggttagggc tcctgatcga tttcgcgagc tctgcgatta ttttaagtat 180

taggatccga aattagaaat gggtggagag ggagattcaa gtcagccgca gagtggtgaa 240

ggagaagctg tggctgtgaa catcaggtgc tctaatggca cgaaatttag tgtgaagacg 300

agtctcgatt caacggtgga gtctttcaaa gagttggtgg ctcagagcag cgatgttcca 360

gctaatcagc agcgcttgat ttacaagggt cgtatcctca aggacgatca aactctcctc 420

agctaaggtt tgcaggctga tcacaccatt catatgggtt aagaggctct gcancttctt 480

cagcaccacc tcctgctccg gccg 504

<210> 4063
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-G10

<400> 4063

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gtgttcctct gtaatttctc agtatatata gataccaaaa caagcagtga aaaatggcta 120

tggcgagttt atatcggcga tctcttcctt ctcctccggc cattgacttt tcttccgccg 180

aaggcaagct aatcttcaat gaagcgcttc agaaaggaac tatggaagga tttttcaggt 240

tgatttcgta ttttcagaca caatccgaac ctgcgtattg tggtttggct aatctctcag 300

tggtgttgaa tgctctttcc atcgatcctg gacgtaaatg gaaaagggcc ttggaggtgg 360

tttgatgaat caatgttggg attgctgcga acctctggaa gtaatgaagg aaaaaggcat 420

ttcatttggg aaaaagttgt ctgtttggct caattgttc 459

<210> 4064
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-G11

<400> 4064

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agtgcttagc atggcaccag gacttgaacg cctcaacatt ctacccttca aggtcgctgc 180

atatgacaaa actcagggga aaatggcctt ctttgatcct tccaggtctc aagacttcct 240

cttcatatca ggaaccaaga tgcgtgggtt ggcgaagaag aaagagaacc caccagatgg 300

tttcatgtgt ccctctggtt gggaaggtgt tggttgacta ctacgacagt ctcaagtgca 360

gagactggta atggaagggt ttcagaagct gttgcttctg cttgaatgca aaaggtttcc 420

ttgtcccaca aagattcaca tttcctgttt gttagtaact 460

<210> 4065
<211> 451

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-G12

<400> 4065

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cctcaagatt tccggggaac gctcatcagn cagcagaagg agaggtcggn gaggaacaaa 120

caggcggagg ttnatgcgtt ggtcagctct ggngggagca tacgcgacac atatgctctt 180

ctttggaatc agcaaatggn gaggaggagg canttggctc agctaggctc tgccactggt 240

gtctacaaaa ccctggtcaa gtacttggta cgggttccac aggtgttgtt ggnntttatt 300

cgacaagata aacgatnatg atgggccaaa tggnataaca gcaagaacgt tatgnacccc 360

cctctagaca antctcacaa gaaatggtga tcgcaaattc gggttttcct aacacttctg 420

nncggaaaga tatgatacct tcanactgag t 451

<210> 4066
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-G3

<400> 4066

ncgccgtccg ctttgantag nctcaccaaa gtccattttt aaaaaatcaa ctataccatt 60

tttagctatt ctttggtctt cgtttcgtgt aagcattcaa tgtttttttt cttttatctc 120

tttgggaaac gggagtgtgg tcttcgtgtg tgtgtccctg tttcattaac caataattat 180

gcttgggagt ggaaagcaag aaaaattcta aactttatat aaaattccca gaatcaattg 240

atccaaaaag agtattgtca aaaaagataa tcaagaagaa gaaactctgt ttttttgttc 300

tgttcttgga aaaaaatgag gagtatgatg atggagagag agggaaggaa tgagatagaa 360

agagaagtaa tagatgactt ggaagagacg caaaacgaag gagatgattt caaagtcaat 420

acctccatgg aaggaacaaa tcactttcag aggaattgtt gcaagtttaa tcattggtat 480

a 481

<210> 4067
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-G8

<400> 4067

acgcgtccga tctgtctccg tcaggttacg gcgaaggaag tgtattcaat gatagccaaa 60

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aaagaagaca ctatccttcc tcttccccat acagtccatg tcatgacagc aggagctgct 180

cctccacctt ctgttctctt ctccatgaac cagaagggct tccgagtcgc tcacacctat 240

gggctttccg agacttatgg tccttccacc gtatgcgctt ggaaacccga gtgggattcc 300

ctccctcctg agacgcaggc ccctcaatgc tcgccaaggt gtccgctata ctggcatgga 360

gcagcttgat gtcattgaca ctcagaccgg aaaacctgtt cctgcagatg gaaaaaccgc 420

aggagaaatt gttttccgag ggaatatggt gatgaaaggt atctaaagaa tccggaa 477

<210> 4068
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H1

<400> 4068

gcacncncgg tccggaaaac cgggtcgacc cacgcgtccg ctctagngtc ggggcctcga 60

tctcttgatt tgagcttttc ttangtctgt ctctctctgt acactctctc cgccgtcgta 120

tctcgccgtc gatttcaatt tttccgacga tatgaagctc accgttaaaa ctctcaaggg 180

cagtcatttt gaaattaggg ttttaccctc cgatacgata atggcggtga agaagaatat 240

agaagattca caaggaaaag acaattatcc atgtgggcag caattgttga ttcacaatgg 300

aaaagttttg aaagatgaaa ctagcctggt ggagaacaaa gttacggagg aaggatttct 360

cgtcgttatg cttagcaaga gcanatctgg aggttcaagc tggtcaggct tcgggttcan 420

acttcttctg tttcacagcc ctgtttccgc taccacatcn tcgactaagc ctgcangctc 480

catctaaanc ccagtcttca ccngttccct gcttc 515

<210> 4069
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H10

<400> 4069

actcacgggt caacccacgc gtccgcaagt tttacttaag ccgttacggt cttggtcgta 60

accccaaggt ttggtctgat ccacttagct tcaaaccaga aaggcatctc aatgagtgtt 120

cggaagtgac tttgacggag aatgatctcc gttttatctc gtttagtacc ggaaagagag 180

gatgtgctgc tccggcgtta ggtacggcga taacgaccat gatgctagcg aggcttttgc 240

aagggtttaa gtggaaacta gcaggaagtg agacacgtgt cgagcttatg gaatcgagtc 300

atgatatgtt tctttcgaag cctttggtgt tggtcggaga attgagattg tcggaggacc 360

tttacccaat gggtgaagtg aggcgacggt gacgtacggc gaagataatt ccgtatatac 420

tatggataac ccaaagttta ngtgaatcac aaaccaaact ttgttcggtt ttgg 474

<210> 4070
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F11

<400> 4070

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tggcactcat tagacagccc gtctgggcag gtttgcctta acattaatgc aatcaaacta 120

cccgtgaatg ctcctagggc tgtaactgga tatgctggag ccggtagaan aagggtcaca 180

ttggatcagc aaggnccaac aattgtacat caaaagccag ggcctctgca gacgatattt 240

gatctcctcc cggatgaggt tgtcgaccac agttattcat gtgccctgga gaggtcattc 300

ctgtatcatg gccgaatgta tgtttccgcg tggcacatat gtttccactc caatgttttc 360

tctaaagcaa atgaaggttg ttgtccctct cggngatata gatgagattc gtagaagtca 420

acacgcgttg ataaacccaa gctataacaa tcatactacg gatgggtgct ggtggacatg 480

gtgttccccc tctt 494

<210> 4071
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D3

<400> 4071

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cangagttcc aaaaaggtgg ctccnttttg tttctggana tgcgttattg tgacccttct 120

ttgaagattt acggttcatt ttctcagatt tcgagttcgt tgtgtttgaa tctcnattgg 180

gtttactttc ttattcgatt tgggggaaat ggctgattgg tatcagcttg cacagtctat 240

aatctttggt ttgatcttcg cttaccttct cgctaagcta atctctatcc tcctcgcttt 300

taaagacgag aatctctcac tcactcgtaa ccacacgact caatcggngt atgagaactt 360

gcgaaaggtc gaaactttaa ctgggattag cggcgagact gattctctta tanctgagca 420

aggtagctnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnaggca tttagtgctg ctacggcttt 520

<210> 4072
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D6

<400> 4072

acgcgtccgg aattaagaga gcaaaatgag cataaatagg aatctgttga atatcataat 60

aatcctttgt atatgtctca atttgggttg taacgatgga gctcaagaaa gagagactga 120

ttctcatact atccaagtca gctctctcct cccttcatca tcatcatctt gtgttctttc 180

tcccagagcg tctactacaa agtcttcact gcacgtgacg catagacacg gcacgtgttc 240

gcgtctaaac aatggcaagg ccacgagtcc agaccatgtc gagatcctaa gactcgacca 300

ggctcgcgta aactcaatcc actcaaaact atcgaagaaa ctcgcaacag atcacgtcag 360

tgaaagcaag tcaacggatc taccggctaa agacggaagc acactcggtt caggtaacta 420

catcgtgacg gtcgggcctc gggacaccaa ggnacgatct atcactaatc ttcgacactg 480

g 481

<210> 4073
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D8

<400> 4073

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accagggatt cagtacagca cccaccgtgc catcgggatc gctctcttct ctctagcgac 180

agttcaggtg tttgcgatgt ttctgaggcc aaaaccagag cacaagcata ggctctactg 240

gaacatttac caccacacga tcggctacac gataatcatc ctaggggtgg tgaacgtttt 300

caaagggcta ggcatattga gtcccaagaa gcagtggaaa aatgcctaca tcggtatcat 360

tgttgttctc gccattgtgg ccaccctact cgaagccttc acctggtatg tagtcattaa 420

aagaaggaaa ctggaggcta aaacggctca gcatggagca tctaacggca ctcggtctca 480

gtatgcttaa gattagcanc agacttgctt c 511

<210> 4074
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D9

<400> 4074

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aaccatgcaa gccgcaacgt cgtgtgatct caagttccga tcaacagatc cgacgtctag 120

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ggagtcgttt agcttcccta acggtgtctc cgtgagtcga tctgattggc aaagctcatg 240

tgccatttta tctagtaaag ttgcttctgt tgaaaatacc ggtggtttag cgggacaaaa 300

tcgccgccgt taatgggtca cacgaacggc tctgtgaatc ttggtctcgt cgccgttgag 360

tcaactaacg gaaagttagc tcctgctcaa ccgtttgact attactgatc tatctccggg 420

naccgttgca tggttctagt ccaacgtgta gcttaacaag 460

<210> 4075
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E10

<400> 4075

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acggaagcca tgaaaatggc atcaagaaaa acaacatcct tgcttaatca tcttcttctt 120

cttggagctt tgactctttt gagcagtttg gtgatagtga aaggagaaag cccttacaag 180

ttttacactt ggactgtgac ttatggcatt atctctcctc ttggtgttcc tcaacaggtt 240

attctcatca atggtcagtt tcctggtcca aaacttgaag ttgtgaccaa cgacaacatc 300

atcctcaacc tcatcaacaa acttgaccaa gcctttcctc ttgacctgga atgggattaa 360

gcagaggaag aactcatggc aagatggtgt tttggggaac aaactgtccg attcaaccaa 420

actcaaactt cacttacaaa ttccaaacca aagatnaaga tnggaacttt caactacttc 480

ccttccactg gcttttcaaa 500

<210> 4076
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E11

<400> 4076

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aatggagata aaaccctcta ggatattctc caccatcacc atcttctttc tctgccttct 120

actagcacac gtcacctcca aggcatcatc atcatctctg tgcaatggat ctgtggcgga 180

gtgcagcagc atggtggaga cagaggaaat gagtgtgata atggagtctt ggtcaagcca 240

gaggttgacg gaggagcagg cacataagct ttcgtatgga gctttgagga ggaatcaagc 300

ctgcttgcga tggtggtaaa cgaggcgagt cttactcaac tcaatgtctt cctccaccgt 360

ctaaccctta tagtanaggc tgctctaagc attaccgatg cggccgtgac tcttgaccat 420

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ttgaattgtt ttggtttcaa gtaaa 505

<210> 4077
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E4

<400> 4077

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gattacacag tccctagtcc gaaagtaccg gacaattgcg gtgacagcca aataggaacg 120

gtcggatgtg tagctgtgga cagtgctgga aatctagctt cggctacatc aacgggcggt 180

tatgtcaaca aaatggttgg cagaattggg gatacgccag tcattggcgc aggaacttac 240

gctaaccacc tttgtgccat ctcagccaca ggtaaaggag aggatatcat ccgtggaacc 300

gtggctagag acgtggctgc actcatggaa tataaaggct tgtctttgac tgaggcagcg 360

gcttatgttg ttgaccaatc tgttcccaga ggaagctgtg gactcgttgc tgtctctgcc 420

aatggtgaag tcacaatgcc gtttaacact ancggaatgt c 461

<210> 4078
<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E6

<400> 4078

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tccgtgacag caaacctgaa gatgataaag ttcctaaaga agtggatgat gaggacaaag 120

atgggttcct taagaaactt ttcagggaaa aaaatgatga caaaagacat ggtagtgaaa 180

agaatgaagc caatggaaca gtgtatgccg ataagaaatc tggtgaagag gatgagaggg 240

aggggttttt caaaaaattc tttaaggaaa aatctgatga caagaaagac attgtcaagg 300

ttgatgacgg gaatgaaagt gagggtgatg aatctccaga attttctctt ttcaaaagat 360

tattccgtat acatcccgaa gatgcaaaac ctacttcaga aaatgaaaat agcagcaatg 420

gcttagttga aagcagtcct gggacagaaa acttttccg caagttgttc agagatcgtg 480

accaatctgt tgaagattct gaactgtttg gatcaaagaa acacaa 526

<210> 4079
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-E7

<400> 4079

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gatctcctcg aacccatcat cttaaatcgc ccgatcaatt ctatctccgg cggtctagca 120

tttttcatcg ccggcgaaac atttttttacc aattctccag cttggctaat caactccgat 180

cacgttccgt attcccaaat tcgatctcga agggggacat agagaagtct ttcgcgaagg 240

agaatcacga gactttgatt acttttggca ctcttatgtt ttcttactga ataaagggac 300

ttcatttaca gcaactggag ctgtttttat tgtttacctc caagcgcata attaaacgag 360

aggcatgaag aactgctgaa ttcaatcaat gcaagtttgt ttcgttagct tgaatggatg 420

tagcaacaga tactacaagg cggcgtcttc ttcatccgac aagaacaatg cagtt 475

<210> 4080
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E8

<400> 4080

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tttgggtgtt gtggggagga tgatgatatg cataaaactg ctgattatgg aggtcgtcat 120

aaccaagcca aacactttcc tccaggaaat gatgcaaggc accaccaagc ctctgaaact 180

gcacagaagg gtcctccagt tgtgaagttg cagcctattg aagtacctat tatccctttt 240

agtgaactca aagaagcaac tgatgatttt ggatcgaatt ctctcatcgg tgaaggctct 300

tatggaagag tatactacgg ggtattaaac aatgatctgc cttcagcgat taaaaagttg 360

gattctaaca aacagcctga caatgaattc cttgctcagg tttccatggt ttctaggctt 420

aaacatgata actttgttca acttcntggg ctactgtgtt gatgggaatt cacggatac 479

<210> 4081
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F1

<400> 4081

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tttgataaaa tcctttgtgt tgaaggaaaa aaaaatcata taggtaacgt ttgatacaag 120

taaaaaaaaa aaatttccat cactttcttg ggtaaaaaaa acatgggtta gaggaaaaac 180

tggggaaaag attttagatt aagtgcgtaa agaattctga ttccttcgtc tccgatctct 240

catttttctg gagaaattgt caaaaatttc agatatctat attgtcttgg aactgaagat 300

tcatcgaaag attggtgagt tttattcgct gcttatcgct tgtgggcaat cacatcatct 360

gtgttatgca tccaagtaat ggtgtcacat aaagtcttag aanttgggag atgaagggtt 420

acaaattacc tgctcaagct cgaagctccg aggatnactc cggaaagaag cgcattnacg 480

aaaagg 486

<210> 4082
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F10

<400> 4082

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ggagctgtag agacttgttt tgggtcgttt catcggtacg ctcaatacat gaatttctca 120

catcctttga tcaaagagaa gtttaatccc aaagcatgtg cgtgggcgta tggaatgaac 180

ttctttgatc ttgatgcttg gagaagagag aagtgcacag aagaatatca ctactggcaa 240

aatctgaacg agaacagggc tctatggaaa ctggggacgt taccaccggg gactgatcac 300

cttttactca accacaaagc cgctggacaa atcatggcat gtgcttgggc tggggttaca 360

atcccgagca ttagcatgga tgaaatncgc aacgctgcaa gtggtacact tcaacggtaa 420

catgaaagcc catggcttga catanctatg aaaccaagtt tcgaccacct ttggaccaaa 480

acacgtccaa ctaatgaacc tccnaagttt gttca 515

<210> 4083
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D2

<400> 4083

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aaaacaacga cggcgacggt gacggctaag cggaagagct tttgttgcca atgacggact 120

cttacggcgc cgtctccgtc gacgttggaa caatctatct tggtggcaag gagcatcgtg 180

ttaaaactgc tagtggtgtt gtgtctgtca ttgtctatgg agacagagaa aagccagcat 240

tgattactta tcctgattta gccctaaacc gtaaggctaa agaatctcta taggcactaa 300

tgtaatggct aaatttatta atgtttttgt tgtttcttct tcagatatgt catgcttcca 360

agggttattc ttctgtcctg aagcagcttc attgctgctc ataacttctg canttaccat 420

atcagtccac ctggggcatg aanttaggag ctggctccaa attggcccaa atgantcaat 480

tcc 483

<210> 4084
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-B4

<400> 4084

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gctttttctt ctctattact gcaatcactt gttcacgata atggcggacc tctcctctgt 120

cgatgagttc ctgaatcagt gcaaacaatc cggcgacgca gcttatggcg ccttgcgatc 180

ggtcttggag cggctcgagg atccgaatac tcgatctaag gctcggatct tcttgtctga 240

catctacaaa cgcgtcggat cttctgagac gtctctccaa acctaccatt ttcatatcca 300

ggacatctat ctcgatcaat acgaaggctt tcagtccagg aaaaagttaa ccatgatggt 360

cattcctagt atttttattc caagaagact ggtcatttac attttatgaa gggacttaac 420

aagacatccc tgacaccaac ctttaaggnt aagactgttt cctgaacttg gctgtgggaa 480

agggttggat aatcaataan ccattgctgg 510

<210> 4085
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-B9

<400> 4085

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gcgtccgccc acgcgtccgc gttgcttcat tttccttgag atcgattggt acaagtgttc 120

atccaatggt tggaggagga gttatccggc agcttcttag aaggaaactt cattcccaat 180

cagcaactcc ggtattgtca tggttgtctt cgaagaaagc gaatgaagat gctgggtctg 240

ctggtttaag agcatttgct ctcatgggtg ctggtattac cggattattg agtttttcta 300

ctgttgcatc tgctgatgag gctgaacatg gtctggagtg tcctaactac ccttggncac 360

atgagggcat tctcaagctc atatgaccaa tgcttcgatt cgtcgtggtc accaagttta 420

tcagcaagtt tgtgcgtctt tgccattcga tgtctctgat ctcataccga agacttggtg 480

ggttgttgcc ctaaacaaga gggaaaaagc 510

<210> 4086
<211> 507
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C12

<400> 4086

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tcgctggtaa ngttgctgtt atctgtggct atggtgatgt tggaaagggt tgtgctgctg 120

ccacgaacac tgctggtgct agagtcattg tgactgagat tgatcccatc tgtgcccttc 180

aagctttgnt ggaangactt caggttctta cccttganga tgttgtctca naagctgata 240

tctttgtcac caccaccggt nacanngaca tcatcatggt cgaccacatg angaagatga 300

nnaacaacgc tattgtgtgc aacattggtc actttgacaa tgagattgac atgcttggac 360

ttgagactta ccctgctgtg aancgtatca catcaagcca nagactgnca ggtggggtgt 420

tcccangaga ccanggctgg natcattgtc cttggctgaa gggtcgtccg gaatganctt 480

ggggttggtg gccnctgggt cacccca 507

<210> 4087
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C2

<400> 4087

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aaccctagtt ctgaatggaa tcggcggatt ccggacgatc cgatccggta aaaggagacg 120

acccgggtcc atctttcgtc tcttcaccac cagctacacc tagcaggtat gagtcacaga 180

agcgacgcga ctggaacacg ttcttgcagt acctcaagaa ccacaagccg cctctcgcgt 240

tgtcacggtg tagcggagcg catgtgatcg agtttctcaa gtacctcgac cagttcggta 300

agaccaaagt ccacgtggcg gcttgtcctt acttcggcca tcagcaacct ccgtctcctt 360

gctcatgccc tctcaagcaa gcttggggat ctctcgatgc tttgatcgga cggttgagag 420

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cgg 483

<210> 4088
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C4

<400> 4088

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ttcctaactt ctctctctgt cactctaact ctttgtcggt accaaattct tcttcactcg 120

aagaactgtt taggtcaagt atgacttaat tctgccaaat ttctggtgtt tattcaaagt 180

tcaaagtcaa ttgaacaaaa ctttttatca gataaactga agcaatgtat accgagggag 240

cctctgattt tgtcattgac cagagcatgt attatcccgc ttattactct tcaggttatg 300

attcatctgt gggtcttcag ggtgggcaaa atgaaaatgc tccctatatc tgctatacac 360

caagttatgg atatgcacag tctccctaca atccctacaa tccttacata ccaggagctt 420

caatangcgt tgattctctt tgttggattc caacaatatt actcagacct ccgtatgaaa 480

gtgctgcgtc ttcgccnact aagttc 506

<210> 4089
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C5

<400> 4089

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agctctgaga tcccatcaat aaatggcggt aacagagtcc tctgtttatt tactctaaca 120

agtcctttaa ggttttaata acccagtttc atgggggtta cttccttgta tctagccctg 180

ttatagcaag gagctcgtga tcatgagtgg tacagagtta gatgagcctg gaaagttaaa 240

acgtgctgtc attgatgctt ctgctggtgg tgttgctggt gcgatttcac gtatggttac 300

ctctcccctt gatgttatca agattagatt tcaggttcag ttggagccta cagctacatg 360

ggctctgaaa gattctcagc tgaaaccgaa gtacaatggt ttgtttcgaa caacgaagga 420

tatctttaga gaggaangtt tatcgggttt ctggcgtgga aatgttccag ctttacttat 480

gggttgtgcc ttatacatcc atacaatttg cagtcttaca 520

<210> 4090
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C6

<400> 4090

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn aagctccggt ggtgttaaat acccgcctcc gtacggcggc 180

gacggctacg gtggctatta tccgcctcct tactacggca attacgggac accaccacca 240

ccgaatccga tcgttcctta ttttccgttt tactatcata ctcctcctca gggatattca 300

ggctcggctc gtttacagaa ttctctcctc tttgctctgt tcgccgtctt gctctgtttt 360

gtgtgacggc gattcatctg tatttggccg ggaaaagtgt acggtgtaaa actgaaatat 420

cttgtttact tanttaactt tttttacatt ttgttgacaa tttgtattat taaan 475

<210> 4091
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C7

<400> 4091

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aataaaaaca aaatctctta cctcaaaaga aaaagctctc ttatggctgc ttcttcttct 120

gtgagaccca ccccaacggg acctcaagtg ttcatcaact tccgaggaaa agatctgcgt 180

aacggcttcc taagctttct tgagcctgcc atgagagaag cgaacataaa cgttttcata 240

gacaaggacg aagtggtggg cacagatctg gttaaccttt ttgtgaggat ccaagagtca 300

agggttgcgg tggtgatctt ttctaaggac tacacaagtt cggaatggtg cttagatgag 360

ctggccgaga tcaaggactg cattaatcaa ggcggtctca atgcgattcc catcttctac 420

aaacttgcac cttcctccgt gttagaactc aaaggaggtt ttggcgatac tttcagggtt 480

ctaaaggaga aatataaaaa tgatcctgan agaactcaaa 520

<210> 4092
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-C8

<400> 4092

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agttaaaaaa aacgggtttt cgacaccatg gatatgagtt caatggctgg ttcaatcgga 120

gtttcggtag ccgtactccg attcctcctc tgtttcgttg ccacgatccc tgtttcattc 180

gcttgtcgaa tcgtcccgag tagactcggt aaacacttgt atgccgctgc ttcaggtgct 240

ttcctctctt acctctcctt tggcttctcc tccaaccttc acttccttgt tccgatgacg 300

atcggatatg cttcaatggc gatttataga cccaagtgtg gaatcatcac tttcttcctc 360

ggtttcgctt atcttattgg ctgtcatgtg ttttaaatga atggtgatgc gtggnaagaa 420

cgaggaatcg antctactgg ancgttaaag gtgttgacgc cgaaagtcat ctcatgttca 480

ntg 483

<210> 4093
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D1

<400> 4093

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gagttgttgt tgccttttat atgtctaatg gagatatgta tgagaagaat catgatgaga 120

tagattttga gtttcttggt aacattagag aaaaagaatg gagagttcag acaaacattt 180

acggtaatgg aagtactcat tcaggaagag aagagagata taatctctgg tttgatccta 240

ctgaagattt tcatcaatac agtatcctct ggtctgattc tcacatcata ttctttgtag 300

acaatgttcc tattagagag gtcaaacgta ctgcggaaat gggtggtcac tttccatcaa 360

agccgatgtc tctctacaca acaatatggg acggttctaa atgggcaact aacggtggaa 420

agtacggtgt aaactacaaa tatgcgcctt acattgcgcg gttctcggat ctaatcctgc 480

acggctgccc cgttggaccc tatcgagcag tttccgang 519

<210> 4094
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D10

<400> 4094

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ttaaccttgt cgtcatcggt cacgtcgatg ctggaaagtc caccactact ggacacttga 120

tctacaagtg tggaggtatt gataagagaa ccatcgaaaa gttcgagaaa gaagccaagg 180

aaatgggcaa gtcctcattc aaatatgctt gggtcttgga caaactcaag gctgaaaaga 240

gaaagaaggt attaccatcc atattgcccc tggtgggaag ttcgaaaccc tctaaatact 300

aacttcaacc aatcnattga tggcccctgg gccacangag aatttcatca aagaaacaat 360

gaattactgg ggaacctcct ccaancctga acggtngcaa ncctccgtaa tngcttcccc 420

tngccnggaa anttcnaacc tgggaaccnc aaanacgggg gaaaacccnt tgaaaatgcc 480

<210> 4095
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-D12

<400> 4095

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aaattcaagt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nngacctaaa tggtctgttc aatcaatccc cacaaagaaa 240

gatgtggagt atccgattat ccgactcang agattacctt gacgaccggt atgantcatc 300

ccggngagct ctctacaacg acgaangccn ccgattcaag gaaaatggga aancnngaag 360

tttacttgaa aananggttt tacntggggt tgantgcgaa nngttactgg gacggaatna 420

agaanccntt taggatnaag aaagaaaccc gtcnttcnga gggtttccgt ttcct 475

<210> 4096
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-B11

<400> 4096

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ccgcggacgc gtgggtttct ccagaacctg acggaaaaaa acttgaatct gcaaatcgac 120

ttccccccgga gaatgcgatc ggagatcgga aactgaggaa ttgctgctct ctactcgcgg 180

tgtttagttt acgattggaa tatggggaag atatttagct ggttagtggt gttattgtca 240

ttgatctcat tagtccctgt tccatcggaa tcggctgttt tgagtgtaga tctaggttca 300

gaatgggtta aagttgccgt agttaatctg aaacgaggac agagtccaat ctctgtagcc 360

attaatgaag atgtccaaga ggaaatcccc agctttagta gcatttcaat ctggagaccg 420

gttactangc gangaagctg cggggaataa cggctcgtta tccgaataaa gtttattcac 480

aactgangga atatggtggg a 501

<210> 4097
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F11

<400> 4097

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tggataaact cattaaaacc ttggaaagtg tcgtcaaagt tgtaagaaaa ttgccgagcc 180

acgtatctct aagagatatt gccattgtca aagttcctac ccgagttgca gaagattaca 240

tcaaggaaca tattgatccc atcttcaaat caaaagggaa cataagggtt acaacctatt 300

tcccttctgt gaatttgagg aaatcttcgc anggtgctga aacccgaccc tgtctcttgt 360

ttgggcaatg tttggttcct tggaattgca accctgcagt gaatgaattg ggtgaagtcc 420

gatgaatcag cngttgaaag acaccatanc cacgaaatcn gggtgggccc gttttcatag 480

ccaataaacn tgaggggtg 499

<210> 4098
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F12

<400> 4098

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agttttgttt tccaaatgtc agcaattctt gcagctgcca ttggtggtgc tgtaggagct 120

cttgcattga ttgctttgtt tgtttttctc ctttggtttt gtgtctttcg tcgtaagaat 180

ctgtctagaa cttctgagac tggctcttct gatccatcta ctcaagaacg aagaaatgtt 240

gcaattgagt tgtcaatgac agaagctana agatttgaaa tggatgaact tgctcaagcc 300

ancaacgagt tttaccaata aaagtcctat nggtatttgg caaaattcgg cgaggtttac 360

aaaangtttg cctcaagatg gtgttcttgn ngcnatcacn gaanaagacc tgggtttgcc 420

nactccaaga 430

<210> 4099
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-F2

<400> 4099

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tcctaaccaa caagcttctc catttcgttt ttcgcgtctc gattccaaat tccacttaag 120

acggcggatt ttctcaccgg gaaattggtt ttagatggat aggactgagg aaatcgaaga 180

atcccccgcc ggaccttctt ccggatccgc gaaattgaag ctcggaaaca gagcagatcc 240

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tgtcgttaac gttctcgctg ccgttcgctc cttccgtgac agccacgatc tcttcgatgg 360

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tggg 424

<210> 4100
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F3

<400> 4100

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acagtaacaa tggcgtcagc ttccaagcaa aacccttctt cttccaaacc tcctaggcat 120

ccatctccga tcattgcttc aacccccctcg aaatccggtg tattggagga atcccaattt 180

cgaaacccta ataacccgtc gacgtcatcg aattcaccga tttcgatggc ggtggaggat 240

cagatcctgg gaaattccaa tcacctcact cngcccggag cttctccgac gcagatcgca 300

caacctgaag cagctctcta gatgctacag agaccattan tgggctctaa tgggangatc 360

tcaaggnata ncatagntat tannggctgg naactatggg ggttaggtcc cntcaaag 418

<210> 4101
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F4

<400> 4101

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tggtttggta cttccattta caggttttgc agctggggct ttacatatct ttctatctgt 180

ctgtctcaca taggggtttt gctctgtgac gtgtcgcata gactgttttt ttcttttcna 240

atcgagtgtc aangacaant ctttttagtt ctttgttaat gtttcgcctc cgtccagaat 300

tgtttactat accagttttc gaaatcctga ccggccagtc taccctggca ataggcaata 360

catggtcctg gtttatttgt tttacggtaa ttttgccttg attgaaaaaa agaanaaa 418

<210> 4102
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F6

<400> 4102

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caacagagga tcacatgcct ggttggattc caaggaatct caacaaaggt cacttagaca 120

gattctattt cctcctggct gcgttgacga gcattgacct ggtggtatac attgcatgtg 180

caaaatggta caaacctata caactagaag gaaaagatga gatgcaagac atgagtgatg 240

atgactatga caccgagagt gaagaggaac gaagagaagg attctaaagt ctaacaaatg 300

tgtgtttggt tttcagtttt ccggtgatgt aacagcaaac tgattcataa ataaaangct 360

aaatcggatc agtctttttc gtcgaaaaag acttcttc 398

<210> 4103
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-F9

<400> 4103

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caatcccacc gtggtcttgt ctcgctagct gggactttac tgtctccgac ccatgtgctt 120

caccacgtcg aacacatttc acttgcggca tcacttgctc gtctgactcc acacgtgtga 180

cccaactcac tctcgaccca gccgggtaca cgggtcgtct cacgcctctc atctccggcc 240

tcacagagct tctcacgctc gatctcgccg agaacaactt ctacggccta atcccatcct 300

ccatctcctc cctcaccaag cctcaagacc ttgatcctcc gatncaactc ngttttccgg 360

gtcattaccc gactcantaa ctcgactcaa ctcactcgaa tccaattgac atatctcana 420

ac 422

<210> 4104
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-G1

<400> 4104

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ccgtcaccgt caaagccact aagccgtcgt ttctcgtcat ttggatccga tactcctccg 120

ccgcgtcgtc gccgacagtc tccttgaatc caagtggacg attacagcaa actctcgcag 180

gatctgtgga agtgaaagga aaatctctgc actccggtaa gttctcgacg gtgaagctaa 240

atccggagat cgccggagct ggtaggttct tcgagtttcg atccagattc atccctgcgt 300

cgattgaatt tgctcaggaa tcgcctcttt gcacgacgct gttgaaaaga tgagctcaaa 360

atccgaaccg gttgagcatt tgttatcagc tcttgaggcg aanggagttg ataattgcag 420

gattcaaatc gagagcgaaa gttccgatga tcgangaagt cgagggcccc aatttttgat 480

g 481

<210> 4105
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-G10

<400> 4105

ccacgcgtcc ggntacttta tacccatcaa tcaagtcttg tccttttttct ccttctctct 60

ctcatacgag cttctttcct gctgatgagg cttgagcttt aaattttcaa tcttgattga 120

gattctgcat gtttctcgat ctttaaactc agatgaagaa tcttgggggg ttgttcaaaa 180

ttcttctgct tttcttctgt ctctttctat cgacccacat aatttccgtt tcttgtttaa 240

actcagatgg gctaactcta ctctctcttc tgaagcattt ggatagagta ccaccacaag 300

ttacttcgac atggaaaata aacgcatcct gaagcaaact ccatgtaact ggttcggtat 360

cacttgtgac gattctaang aatgttgcgt ctctcaactt cactccgttc taagggtttc 420

aaggtcaatt tgggtccggg aaaatt 446

<210> 4106
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-G2

<400> 4106

tgcccgcccg gtccagaata aacgggtcga cgcacgcgtc cgaaataagc tcctatcttc 60

tttctttctt ttagagatct tgtantctcc tcttagttaa tcttctattg taaaactaag 120

atcaaaagtc taaatggaga ttaacggggc acacaagagc aacggacgag gagtggacgc 180

tatgttatgc ggcggagaca tcaanacaaa gaacatggtg atcaacgcgg aggatcctct 240

caactgggga gctgcagcgg agcaaangan aggtacccat ttggatgaac tgaaganaat 300

ggttgcngag tttaggaanc cagttntgaa tcntggtggt gagactctga ccantggaca 360

antggctgcg atctcancta ttggtaacag tgtgaaggtg ggagctatcg gagacagcta 420

gnagccggtg tgaatgctag tantgattgg gttatgggag agtatgaan 469

<210> 4107
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-G3

<400> 4107

acgcgtccgt tctcctcaaa tttcttcttt agaagattaa aaatcttctc tctaatctct 60

ccactctttc ataaatattt tcctaattct tctaccttgg tgtctgattc tagcaccaaa 120

ccattttctc ctaccaaaat ctgggtttcg atcaatttta ggtcttttga ttcctacttg 180

tctaatcgtc ttgcaatttc aaagatgaca gttgttggag atgttgctcc aattccaagg 240

aggaacagtt ctacttgctc taatgatatc gctgctccgt tattaccang agtgtcatgg 300

agatgaagtt gctcatgatg aattcaatgg agcttctttt agtggcgcgg tttttaacct 360

cgccacgact ataattggtg ctgggtatca tggctttgcc tgctacaatg aangattccn 420

tgggacttgg acttgggaa 439

<210> 4108
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-G5

<400> 4108

gggtggcaat ttaccattct caacctccgg atacatcttc agtggtcaag cctgagaaca 60

atcctccaca gtaggatttc tgcaataaag agtttgtaca gctaatccaa ctgtccaaca 120

tgggtttttc ttctgctcta atgactctgg tttcttctct cctctctcac ccacttgaaa 180

ggtaaaaaag tgaaaaaggc tttgtagatg gaatcaatgt aggatttgca gtagagggaa 240

aaaaaatgtc aaaaagctca attgatcaag tattattgta atcattgtac ctttatttta 300

ggtggacttt gatgaaagca acttttgtt ttcaagactt tagtgggaag gttgaggaag 360

gagcttgaan ggtgttattt aattaagtag tagtagtaat gggaanttgt gggaac 416

<210> 4109
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-G6

<400> 4109

ccttacagtt tttatggctg tgatgtcttc tacaatggtc tctgctcagt caagctgcac 60

aaacgctttg attagcatgt cgccgtgtct caactacata actggaaact ctacctctcc 120

taatcagcaa tgctgtaatc agttgagtag agtagtccag tcttctcctg actgtttgtg 180

tcaagtcctt aacggtggag gctctcagct tgggatcaat gttaaccaaa cacaagctct 240

tggtctgcct agggcttgta atgttcagac tcctcctgtc agtcgctgta ataccggtgg 300

tggtggtggt ggttctactt ctgactctcc tgcagaatca ccaaactctt caggaccagg 360

taatggatcg aaaaccgtac cagtaggaga aggagacgga cccccatcgt ctgatgga 418

<210> 4110
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-E7

<400> 4110

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ccatcctcgt ctctgtgaca acagcggttg atgatcctgt ttgcccggcg acttccaagc 120

taagccgagc aagtttccct aatgggtttt tgtttggcac ggctactgct gcgtttcagg 180

tcgaaggtgc aattaatgaa acttgtcgtg gaccggctct atgggatatc tactgtagaa 240

gaaatccaga gagatgtagt ggcgaccacg ccgatgtggc cgttgatttc ttccatcgtt 300

ataaggaaga tattcagcta atgaanaatc taaacacaga tgcattcang actctcaatc 360

gcatgggtca aagaatattt cctcaatggg agaanngaga agggganttaa gtcaagctgt 420

gttg 424

<210> 4111
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-B6

<400> 4111

cgaacactca cctctcctga cctcatggaa cctttcaaca actttctgtt catggaccgg 60

tgtcacgtgc gacgtctctc tccgtcacgt gacctctctc gacctctcag gtcttaacct 120

ctccggaact ctctcctccg acgtagctca tttacctctg ctacagaatc tatcactcgc 180

tgctaatcag atctcaggtc ctattccgcc gcaaatctcc aatctctatg agcttcgtca 240

cctcaatctc tccaataatg tcttcaacgg ttcatttccc gatgaactct cctctggatt 300

ggtgaatctc cgtgttcttg acttatacaa caacaattta accgggagat ttaccggttt 360

cactcactaa tctcactcag ctccgtcatc ttcacctcgg tgggaattac ttctccggc 419

<210> 4112
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C12

<400> 4112

acgcgtccga nttgagttcg agagaagaaa ggtcactaaa gaggatataa gagagctaat 60

ttctagggag atacttgagt accaccctca gctgcttaaa gatcatatga acggggctga 120

taaagccagt tttctctacc caagtgctgt tgatcaattt agaagacaat ttgcgcatct 180

tgaagaaaac agtggtaaaa ccggccctgt ggcacctcta gaaaggaaac atgcctctct 240

tcccagatca acggtcatac actcaaccgc agtagcacga ggaggacaac caaaacttat 300

gaataacaca aacacattga accctgaaac tactcaaaac attccttta atcatgcaac 360

aatacaagca caacaaagaa acctctcaag caagccaaac caagcacatt catgggcccg 420

gttgcacctt tcgacaatgg c 441

<210> 4113
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C3

<400> 4113

taaantttaa ttgtttggat atttgctttt atcttctacc aanttcctct gattttgtcg 60

aagaaattag tagctgnaaa tccaanaatc ggacttactt catcagcttt ttggccccac 120

tttacaaagt atgagcaagt ttttcttgtt ttctacagca aagcaatgct cacaccattt 180

tcgtggagct taaagtcttc aaacccaaac taaaagcttt gaaatttctc tgcaagaaac 240

agagagagag atctagggat tggctattaa gagagagaga gtagaagtac tacactattg 300

gttcctgtgc tgttgtgttt tgtgcatctg ttcttgtgtt tctcagataa aatattagnt 360

tcagtcnttc aaagacattg antctcacac acttactaac acacactcac acacgcgtta 420

atttct 426

<210> 4114
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C6

<400> 4114

acgcgtccgc cgaaaccgag agaaaatata naanaagatg attgagacgg ttaaacacct 60

gatcggctcc ggtggtccca gcggattcgg gtcaagatcc accgccgatc atgtcacttg 120

taattctgat ctccgttctc taactgccat catcactggc gcgacgtcgg ggataggagc 180

tgagacggcg cgtgttcttg ctaagcgtgg cgcaagactt gtgcttccgg ctanaagcgt 240

caaaaccgcc gaggaaacat aggctcgtat actgtcggag tttcctgatg cggagatcat 300

cgttatgcat cttgatctca nctcacttac ctctgttcgt cgattcgtgg acgatttcga 360

atctctcant ctcccactca anatcctcat aagncaatgc tgggaaatat gcgcataan 419

<210> 4115
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C7

<400> 4115

tgttgacncc tgccaggtac cggtccaana attcccgggt cgacccacgc gtccggtttt 60

gcancaatga tgtccctata tttggtgatg gcagtctcag cggtggtgat gagttatggt 120

catcttctaa agatgtatcc aatagcccaa aatcattatc atcaatgttg gactctcaag 180

atctaggatt ggatattana actgagtttg agcaacaaga gaaccagcaa tttccattga 240

ctggaaaagc caatggtctg tcatcccaaa gtgtcccaag tgtacgtgta actcttaagg 300

ctgaccaata tcgtgagcat aagggtcaac cctcagttga ggaccaagcc atatcaacaa 360

aataaaatga tgaagttttc gaaaatgcct gggacttctg aggcaangcc ctttcaagag 420

ctgtacggtc acaggattcc atttagtaat tcagctggaa aatgtgtaaa tcagttggca 480

c 481

<210> 4116
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C8

<400> 4116

acgcgtccgg aaaaacaaaa ggataggaaa gacgaagaaa taaaaagaga gagaatgtta 60

gagagacaaa ctctgagaga caaaacaaga gaaaatcgct cgtcgtcggt attcaagcgt 120

ctgtgactcc gataaagcct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnctt 180

ggagttgtcg tatctctaaa tcggaggcaa tttgagtgag ataaagacaa aggaaggaat 240

caagtggact accgaagcga gttttgagct ttttcagaga cggatttgga gatttcttgt 300

tgatatcgtc tgcttagagg cttatttggt accagatgaa acagatctga gcttcggaag 360

gtatggcgag ttcggaggtt tcaatgaaag gtaatcgtgg aggagataac ttctcctcct 420

ctggttttaa gtg 433

<210> 4117
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-C9

<400> 4117

tgtttacgca gcccttagcg ggccaaaatt cgcggnncna cccacgcgtc cggagagatt 60

aagcagggga agtatgggga tataggcaaa gttatggaag ggccaaacca gtggccagag 120

aatcctcagg agtttaaaga gttgatggag gagtatatta agctatgtac agatctttct 180

agaaagattt tgagaggaat ctccttagct cttgctggat caccttatga gttcgaggga 240

aagatggctg gtgatccttt ttgggtgatg cgtcttattg gttatccagg tgctgagttc 300

acaaatggcc aacctgaaaa tgatattgga tgtggagctc acactgacta tggcttgtta 360

actcttgtga atcaagatga tgacaaaact gctcttcaag tgagaaactt ggggccggtg 420

agtgggatat cagccattcc aatccctngg atcgtttgtt tgcaacatcc gtgacatgtt 480

taaga 485

<210> 4118
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D10

<400> 4118

agaagaaccc aagatcgact cttacttcga atctctctca actttcttcc tcagcttacg 60

ggaacttcca cacatataca tccacaagaa cccatatcga agattcatcc tacatatatt 120

tacatggatc agtactcatc ctctttggtc gatacttcat tagatctcac tattggcgtt 180

actcgtatgc gagttgaaga agatccaccg acaagtgctt tggtggaaga attaaaccga 240

gttagtgctg agaacaagaa gctctcggag atgctaactt tgatgtgtga caactacaac 300

gtcttgagga aagcaactta tggaatatgt taacaagagc aacataaccg agaggggatt 360

aaaatcagcc tcccaagaaa cgnaaatccc cgggcgagag aggangcatt c 411

<210> 4119
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D3

<400> 4119

ctgtttacgt ntgccggtgn ccggtccnan aattnccggg tcgacccacg cgtccgccga 60

atcaaatcca aaagagcaaa tttacaatct tgcgaactcc taaaatggct cgtaccaagc 120

aaacagctcg taaatccacc ggaggaaagg caccaaggaa gcaactcgcg accaaagctg 180

cgaggaaatc agctccagcc accggaggag tgaagaagcc acacagattc cgtccaggaa 240

cggtggcgtt gagagaaatc aggaagtatc agaagagtac tgagcttttg atccgtaagc 300

ttccgttcca gagattggtt cgtgagattg ctcaagattt caagacggat ctgaggttcc 360

agagcagtgc cgtcgcagct cttcaggaag cagctgangc ttatcttgtt gggctctttg 420

aangatacta atctctgtgc gattcatgct aagaagggtt acgattatgc cctaagggat 480

atccn 485

<210> 4120
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D5

<400> 4120

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aaaaagtttc tccgccaagt ctctccaaaa cccnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa cgtaatctcg 180

aagtcggttg tttcaatcct gccatggccg aagggaagtt cgatctgcct gacgatctca 240

tcttttccaa atcttctgat cagctcaaag aattgggctc agataacagc attcccttgt 300

ctccgnagtg gctttacacg aaatcaagcg agtacaagga tggatgttcg atcnccctac 360

tcctgttccc atgggaaatc caagtgancn aaatccgaag gatgcatggg n 411

<210> 4121
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D9

<400> 4121

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aagccgtaca acgagggctc ttcctgggca acaaaaccac cattttcgtt ttatctcaat 120

cttcgtctct ttcgaaagat ctaaccacaa caactcctta agatggataa gtatcaacga 180

agtggtgaag ccgaaagcgg atacgccgat tgatgcgaat gagattcgta tcactagtca 240

aggcagggca cgaaactaca tcacctatgc gatgactctt cttcaggata aagggtcaac 300

tgaagttgta ttcaaggcaa tgggaagagc tatcaacaag actgtgacca ttgtagaagc 360

tgattaaaga gaaggattcc tgatcttcat cagaacacat ctattgggat tcacagacat 420

cacagacaca tgggaaccaa cacagggaan ggcntctaac tttggagact acaagggcat 480